AMERICAN RIFLEMAN

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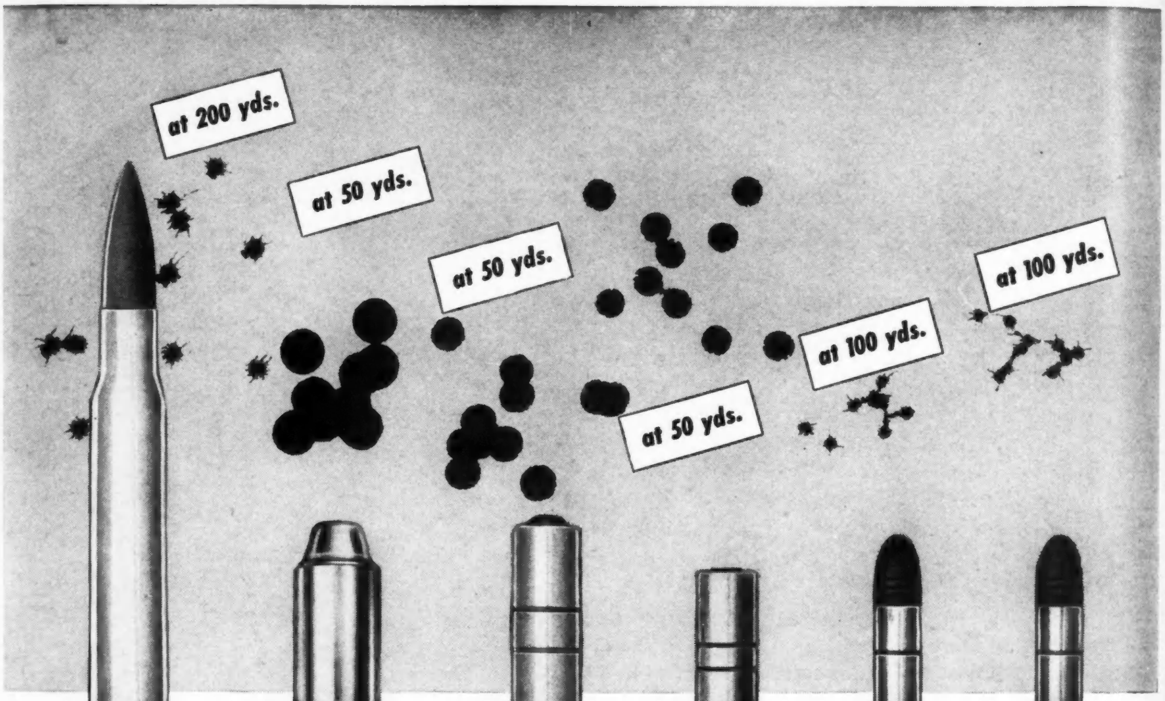

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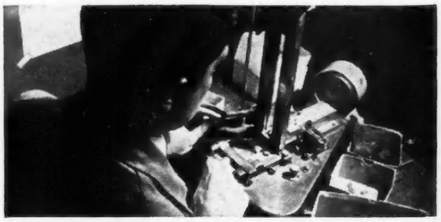

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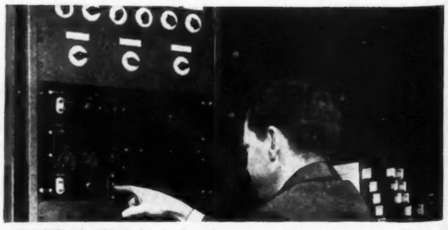

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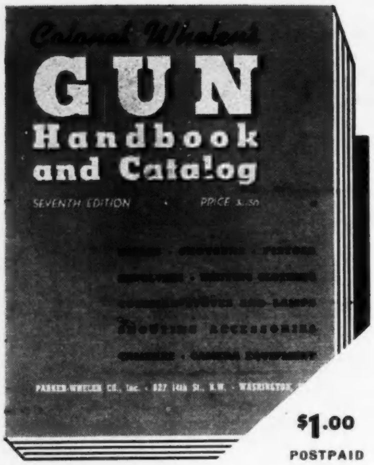

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The Rifle 1885-1888
Shooting and Fishing 1888-1906
Arms and the Man 1906-1923

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Vol. 98, No. 7 ● July 19

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My Recollections of Dr. Mann by A. O. Niedner 1
Third and last of Adolph Niedner's reminiscences, as told to John J. Barsotti

Trigger for your Springfield by Fred F. Berman 1
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Shooting Can Be Fun a Picture Story 2
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Eyesight, Conclusion by A. M. Libasci, MD 2
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COVER

Outdoor photographer Bob Holland, whose Kodachromes are already familiar to Rifleman readers, arranged this month's cover around his father's old double-barreled percussion shotgun. The gun, made by Joseph Peter of Carlsbad, is typical of the fine weapons made in Germany during the mid-19th century

AMERICAN RIFLEMAN

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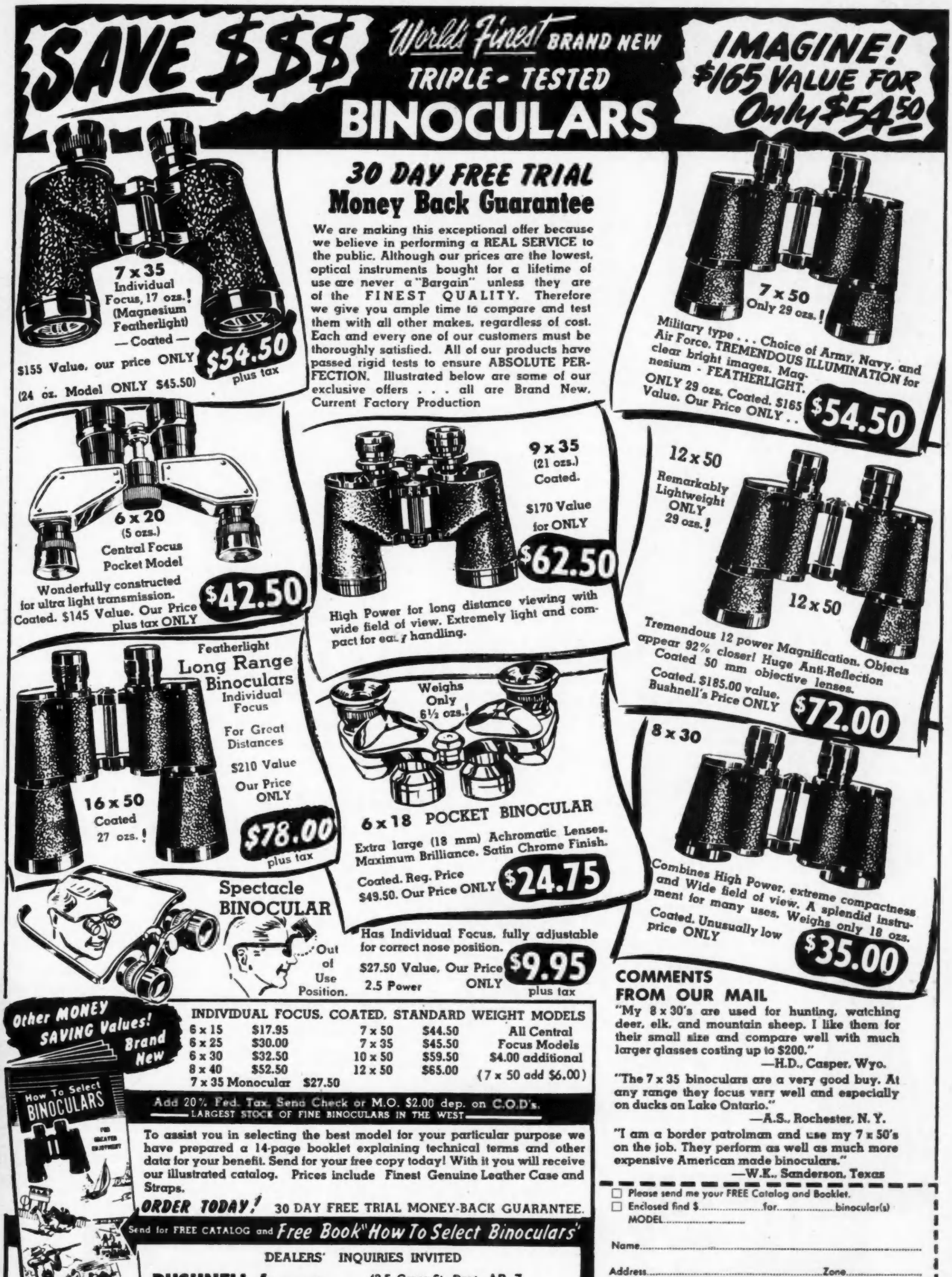

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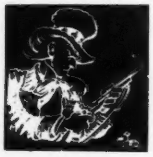
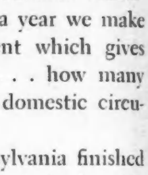


Our Bureau of Vital Statistics got busy the other day and came up with some facts about RIFLEMAN readership that surprised us. A couple of times a year we make up a report for the circulation department which gives a detailed picture of NRA membership . . . how many members in each state; total foreign and domestic circulation; comparative figures for previous months and years.

As usual, California, Washington, New York and Pennsylvania finished 1-2-3-4. California, as of our most recent circulation report, leads with a total of almost 44,000 RIFLEMAN readers. The other three are neck-and-neck with averages of about 17,500 each. That in itself was no surprise. We've known for a long time about the big interest in those four states. What we did not know, however, was the relative popularity of the RIFLEMAN on a percentage basis. How many Americans out of each thousand does the NRA reach directly? That's where the surprise came in. We kind of expected that California, with that whopping 44,000 membership figure, would top the list . . . or possibly one of the New England states, where shooting was an important recreation long before the NRA came into being. But that was reckoning without the interest in shooting current in some of our more thinly-populated states. The winner? Wyoming! One out of every seventy-three people in the state receives the RIFLEMAN. Roughly, that adds up to one family in eighteen. Within those families, more than fifteen thousand people are 'exposed' to the RIFLEMAN each month . . . which isn't bad for a state whose population is just passing the quarter-million mark. (For the pipedream department, if the United States 'joined up' at the same rate as has Wyoming, we'd have better than two million subscribers today.) By way of contrast (and if the Laws of Chance are operating the way they do in schoolbooks) you could start asking folks in Mississippi if they belonged to the NRA and 5,182 would say no before one would say yes.



"Shootinest city" title goes without question to greater New York. On the two big maps which pinpoint the NRA's senior and junior clubs, the New York-New Jersey-Connecticut-Long Island area is blanketed with markers . . . something like 250 shooting organizations in the one sprawling metropolis. Other cities boasting heavy concentrations of shooters are Detroit, Chicago, Washington, Baltimore, Philadelphia, Boston, Cleveland . . . and on the West Coast, Los Angeles and San Francisco. Most noticeable thing about West Coast clubs: their even, state-wide distribution. Every hamlet seems to have some kind of a shooting club . . . but few cities have dense concentrations.

On a national basis, one person in 574 belongs to the NRA . . . which means that the RIFLEMAN is reaching (directly) one family out of about 140.

File under U, for Useless Information.

JS

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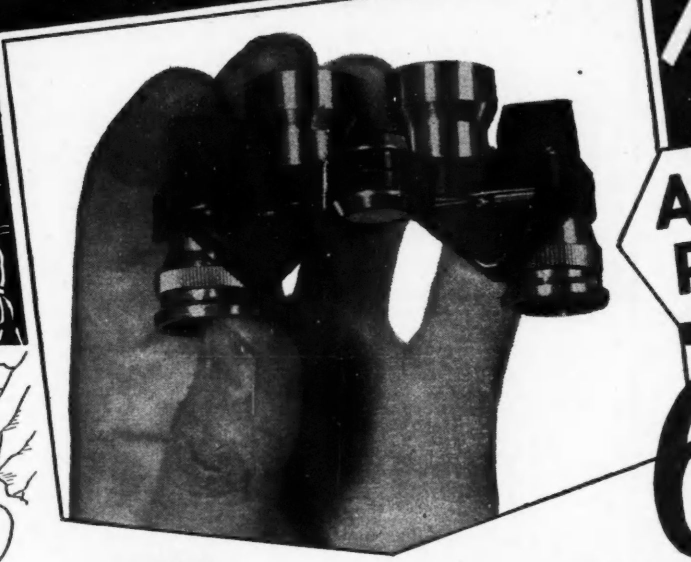

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Editor:

I wonder if you could find anyone interested in Australian aboriginal weapons and implements. I have a collection of 14 various pieces that I would like to exchange for a Winchester, Model 12, standard grade, 20 gauge; repeating shotgun in any condition so long as it will fire. With the dollar position as it is, it is impossible to beg, borrow or steal an American gun out here.

John Bates

HOPKINS SAFARI

Loman, Minnesota

Editor:

It's "thumbs up" on the Don Hopkins African safari articles. You were sort of apologetic about the matter; but go right ahead. It's good.

Most of us know well enough that we'll never get a chance to hunt in Africa; but that doesn't mean that we don't want to, or that we don't spend a lot of time planning all the details of the trip. Who knows. Maybe Don Hopkins will ring my phone at two o'clock some morning and say, "Say, Mac. My plane takes off for Nairobi at five this morning and my hunting pardner backed out on me at the last minute. Want to go along in his place??" You never can tell. I believe in being prepared for eventualities, and I've got my .375 Magnum already built. Now just how in heck are we going to know what else to be prepared with if someone doesn't tell us these things?

Harold E. MacFarland

BARREL BY PFEIFER

Sun Valley, California

Editor:

With reference to the article on page 31, May Rifleman, under the heading Bench Rest Averages, I wish to state that position 19 shot by Al Hoyer should read "Barrel by Pfeifer," and not by Gregoire, as shown.

We do not know who furnished the information but we certainly desire a correction in view of the fact that the smallest group fired at Johnstown, N. Y. came from one of our barrels.

Thanking you for any kind words that may be printed. We realize that this was no doubt beyond your control and you merely printed information as furnished you.

Homer Brown,
Sales Manager
Pfeifer Rifle Company

WALNUT HILL

Winchester, Massachusetts

Editor:

Just dropped in at old Walnut Hill range this evening. I assume you know the general conditions there—and elsewhere. Caretaker informed me about 35 members now—nothing but .22 rimfire allowed, and the cutting through of a new road behind the 200 yard targets may put the entire thing out. For years I've been a member of the Middlesex Rifle Club (Concord, Massachusetts). This, too, is just about a wash-up—everything overgrown beyond 200; 500, 600 and 1,000 utterly impossible. The telephone lines down, instruments smashed and even the clubhouse wrecked. The 1,000 yard (range) at Camp Curtis Guild has been permanently closed and so far as I know there is no other 1,000 yard range left anywhere around here. Too bad.

G. Norman Albree

Prescott, Arizona

Editor:

"Memories of Walnut Hill" and another recent article by Niedner have the greatest appeal to me. I would greatly enjoy more of them. These *riflemen* had something—an art, I would say—that the shooters of today should not overlook. They were real riflemen when they stood on their feet!

Carl J. Miller

MAUSER BARRELS

Philadelphia, Pennsylvania

Editor:

In the article "Barrel Removal, Fitting and Chambering" (Rifleman, May) it is stated that the standard Mauser receiver uses a 6 degree thread, which is a mistake. The Mauser uses a 55 degree metric thread of approximately 12 to the inch. So, to those who do precision work I suggest a threading tool ground to 55 degrees to obtain better barrel fitting of Mauser actions to barrels.

Reginald Hawkins

● *For more on Mauser barrels, see pag 38.—Ed.*

HEADSPACE AGAIN

MONTEREY, CALIFORNIA

EDITOR:

TAKE MORE HEED OF WHAT YOU PRIN STOP ARTICLE BY MACFARLAND WILL RESUL IN BLOWN UP GUNS STOP NO RIMLESS BOTTL NECK CARTRIDGE CAN BE FIRED IN CHAMBE WITH ⅛ INCH EXCESS HEADSPACE WITHOU RISK OF DANGEROUS BLOWBACK.

LOUIS V. MANNING

● *Author MacFarland's reference to succes ful firing of junk Mausers with as much ⅛-inch headspace (May, page 29) added to no recommendation. Such arms can b fired if the headspace occurs at the forwa shoulder, due to too-deep reaming of th chamber. In such a case the extractor w PROBABLY hold the cartridge tightly enoug against the bolt face to make firing possibl If headspace is due to grinding off or shorte ing of bolt safety lugs, so that the bolt actua ly positions too far back from the barrel, th cartridge case will be unsupported betwe barrel and bolt and will probably ruptu allowing powder gas to wreck the rifle. Ho ever, neither the* Rifleman *nor author Ma Farland condones sloppy gunsmithing, partic larly on a point as vital as headspace.—E*

One to remember

Etched against the western sky he stands, with the afternoon sun outlining his magnificent antlers. A perfect shot . . . certainly one you'll remember.

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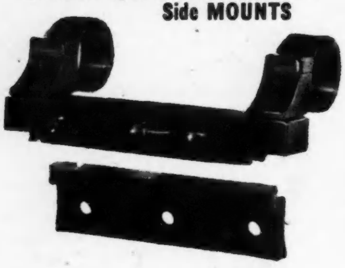

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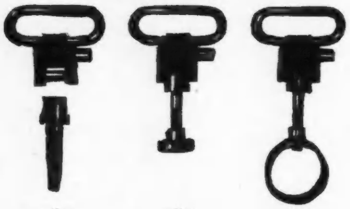

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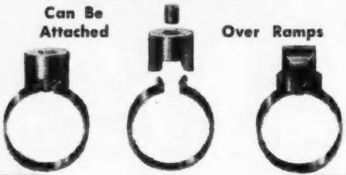

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RIFLEMAN WORDS • • • •

A lexicon of words and terms used in current articles.

CARD WAD—A stiff piece of cardboard, about ⅛ inch thick and usually waxed, which is crimped in place over the shot in an old style shotgun shell.

FISHTAIL WIND—A wind which changes direction frequently, shifting from side to side like a fish's tail.

GAS CHECK—A small metallic cup which fits tightly over the base of a lead bullet and prevents hot powder gases from eroding the base. A bullet with a deformed base has poor ballistic qualities.

JACKETED BULLET—One with a sheathing of gilding metal, soft steel, cupro-nickel or other tough metal over the lead core.

LUBRICATING GROOVE—A depression around the cylindrical section of a lead bullet. A wax or grease compound is forced into the groove and lubricates the bore of the rifle as the fired bullet travels through it.

MAGAZINE—That part of an automatic, semi-automatic, or repeating rifle in which a number of cartridges are loaded. It permits continuous firing by operating the bolt or lever until the number of rounds in the magazine is exhausted. A magazine may be tubular and extend toward the muzzle under the barrel; or it may be a box recess beneath the bolt.

MANN V-REST—A device used by Dr. F. W. Mann which was made of cast iron and machined on the sides, on the bottom, and in the V cut in the top. A barrel fitted in concentric rings 1.635 inches in diameter was placed in the V and allowed to recoil in a straight line backward. Telescopes fitted with rings of the same size, when set in the V-rest, placed the crosshairs on point of aim.

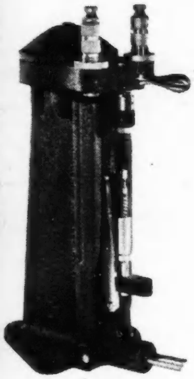
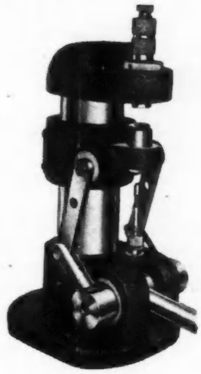
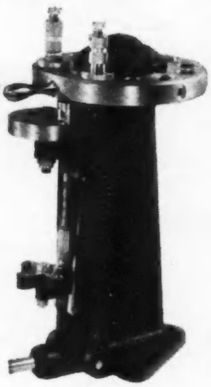
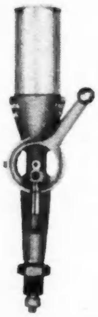
SIGHTING-IN—The determination of sight settings which must be used at a specific range in order to hit on point of aim. A rifleman gets sighted-in by firing and continually adjusting his sights until point of aim and point of impact coincide.

SINGLE-ACTION—A type of pistol with a hammer which must be pulled to the rear manually to cock the weapon.

SIZING—The operation of forcing a lead bullet, which is usually cast slightly oversize, base first through a die to insure that the bullet is round and of uniform diameter.

SLIDE ACTION—A type of gun action operated by a slide under the barrel which is attached to the breechblock. Drawing the slide to the rear opens the breech and pushing it forward toward the muzzle closes it again.

SPRUE CUTTER—A small piece of metal on a bullet mold which pivots across the small opening in the closed mold and cuts off excess metal which protrudes after casting.

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by BISHOP

Editorial

Liberty Bell or Bellwether?

In once more referring to the absurd firearms situation in New York City we are not 'picking on' the New York City police. That department, like all others, is composed for the most part of level-headed, hard-working officers, friendly, efficient and honest. Unfortunately, however, the dangerous minority to which we referred in our May, 1950 editorial is more potent in New York than elsewhere. Unfortunately, too, the anti-gun element throughout America consistently point to the New York law as the ideal which should be nationally adopted. Should it?

The ultimate in confused thinking showed up in the New York City Council on June eighth. On that date the City Council postponed for further study an ordinance by Councilman McCarthy which would require a police permit costing $10.00, revokable at the whim of the police, in order to purchase ammunition of a caliber that would fit any gun "capable of being concealed on the person." Obviously this includes .22 rim-fire cartridges and could easily be construed to include shot shells and air rifle pellets. On the same day Councilman Quinn introduced an ordinance to require the payment of a fee of $5.00 an hour by businessmen who asked for police protection of payrolls "or other special services."

New York City police do not recognize pistol permits issued by judges or police officers outside of the city. Last year the price of pistol permits in the city was increased to $10.00 with an annual renewal fee of $5.00, forfeited in either case if the application is refused. It has long been the practice in New York City to issue pistol permits and then to refuse to renew them. It is logical to assume that the same plan would be followed with the ammunition permits. Thus the purchase and possession of a firearm and ammunition by the reputable citizens of New York becomes so expensive, so involved in visits to the local police station and so uncertain, due to whimsical cancellations of permits by the police, that for all practical purposes the law-abiding citizen is disarmed while the thug goes on his merry way complete with bootlegged gun and ammunition.

Here is the perfect example of the ends to which bureaucracy brings itself. Regulate the reputable citizen to the point where it is, for all practical purposes, impossible for him to aid the police by defending his own person and property. Tell him he doesn't need to worry, the police will take care of his protection. Then criticize the citizen for failure to aid the police in the suppression of crime ("As Ye Sow", August 1949), then charge him $5.00 an hour for furnishing the police protection which he has been promised. Finally, and inevitably, raise his taxes to provide a still larger police force, to cope with the increasing depredations of the underworld! Then, hire more policemen to watch the policemen already hired. This has been the typical cycle from the beginning of time when bureaucracy and the police state psychology replaced the psychology of a government of the *people*, by the *people*, for the *people*.

The history of democracies is an open book. It proves that an armed citizenry is feared only by that type of government official who prefers the bellwether to the free man who, gun in hand, sounded the clarion call of the Liberty Bell around the world.

But the sound of the Liberty Bell grows dimmer. In too many places its sturdy notes have been supplanted by the weak tinkle of the bells chained around the necks of bellwethers seeking 'security' under the shepherdship of the State.

Listen closely on Independence Day. Which bell rings loudest in your community?

C B Lister

Single-Action Craze

By R. A. Bennett, Jr.

In its day the single-action Colt revolver rated an undeniable first among American handguns . . . but you can't ignore progress. Its popularity today is about as logical as a return to the spinning wheel!

SALE
COLT
Revolvers

During the last couple of years a hopelessly obsolete handgun has achieved an astonishing popularity. Every dealer in the United States is buying and selling battered old single-action Colt revolvers for prices that would have given Colonel Colt heart failure. Currently it seems that any single action with all parts present will bring from fifty to sixty dollars in the trade. (The last new ones, made just prior to the war, sold for forty dollars. Old books give the price as about twelve to fifteen dollars in the last quarter of the 19th century, when the gun had real value and was in daily use.) Yet the weapon is so outmoded that even the notoriously slow-acting United States Army discarded it in 1892! And for the benefit of the people who are going to yell about how the .45 was the only gun heavy enough to stop the Filipinos, the revolver used there was the .45 *double-action* Army, hurriedly issued until something else could be developed.

Then why the sudden return to popularity of this contemporary of the ox yoke? It most certainly is not accuracy. Owners of single-action Colts can lie until they are blue in the face about how good old Betsy is, but none of them would expect it to out-perform our modern double-action in serious target work. As a matter of fact, the single-action was not a good target gun even in its heyday. Two target models were produced, but they were not exceptional in any way and were soon discontinued. No, the gun has far more accuracy in even a conservative Western movie than Harry Reeves could get out of a hand-picked specimen.

The grip on the single action is widely stated to be ideal, but our modern gun producers seem not to think so. I have a sneaking suspicion that a lot of other people don't think so either. Although once advertised as suited to "large and brawny hands" the single-action grip is a bit too short for even average-sized mitts. The little finger keeps crawling out into space, even without the magnificent recoil most single-action cartridges give. The only modern weapon that has as poor a grip is the British Webley revolver. Even that is much thicker at the top than is the Colt grip.

As to other accuracy factors, the tolerances are terrific in most single actions. The space between cartridge head and frame is probably greater in this gun than in any other. Seldom is a gun found that does not have a cylinder pin that allows the cylinder to move from one side of the gun to the other at will. The hammer hits like a ton of bricks—and is about as easy to move back. It can be lightened until it is in danger of snapping in half and it still has a fall like a housewife beating a rug. Two of the three notches on it usually last a year and then disappear. The hammer will fire from any position, including down on a cartridge if it is struck a sharp blow. The only good thing about this was to start the habit of carrying only five cartridges in the cylinder, which is still a pretty good habit to have. But if the above adds up to accuracy, I have been misinformed.

Is the single action popular on account of its rugged constitution? A good many writers, even professional ones, seem to think so. One went so far as to say that the Colt outlasted the Remington Model 1874 because it was more rugged. He must not have seen many Remingtons. The Remington has a one-piece frame that is as rigid as a battleship. How many pieces in a Colt frame? The number is uncertain, as loose screws are easily lost and often not counted. However, there are three *main* parts to a Colt frame. These always

The single-action Colt figured in many a forgotten incident of frontier life

seem to hate each other as they are constantly trying to pull away from the rest of the gun. The screws in the frame are almost without number, but one thing can safely be stated about them: in the majority of guns, they are always loose. The Colt probably outlasted the Remington because of Colt publicity and because the Colt offered a wider selection of calibers. It most certainly was not ruggedness.

Inside the single-action, everything except the hammer and the mainspring can be broken (and often is). The trigger-and-bolt spring is a notorious offender. The bolts have a habit of wearing out too quickly also. This is probably the most serious fault of all single-action weapons, as it makes the gun unsafe until it is fixed.

As to other parts, the guns will work without a trigger, hand, hand spring, or trigger spring. It is even possible to substitute a nail for a hammer nose and a rubber band for the mainspring. But so what? Operation of the single action without its guts certainly does not show ruggedness. If the parts were rugged they would not break in the first place.

How about the single-action ejector, widely acclaimed as the best known? Its presence precludes shortening the barrel to less than 4½ inches. It will hang on clothes and will catch in other articles. The rod is often bent and the whole assembly is held on by another forever-loose screw and is lost occasionally when this screw falls out. As to speed, any reasonably fast shooter should be able to remove five stuck cartridges from a stuck double action by means of a pocket screwdriver before he could get three out of a single-action in the approved manner. Or he might shake all of them out before he got one out of the single-action. Of course, loading the single-action is just as complicated and almost as slow. Well, that ejector helps to balance the gun anyway!

The one-piece grips? I think most people liked them because there was ample room to carve pictures on them. The single-action is undoubtedly the most-decorated gun in the world. It is easier to buy carved grips for this out-dated weapon than for any other gun ever made. However, if the serious shooter were given his choice between two-piece grips and one-piece frame or the opposite (and obsolete) extreme of one-piece grips—carved or otherwise—and two-piece frame, there should be only one answer. And that answer isn't a single-action.

Finally, we come to safety. The single-action in its best condition has stayed together with .357 Magnum and heavy .44 and .45 caliber loads. But most of those in present circulation are not in that best of condition. They are going to get worse as time goes on. The craze to find salable guns has spread farther and farther each year. Dealers, gunsmiths, and individual shooters have repaired and cannibalized until some guns have only one or two of the parts that they left the factory with. The replacement parts are of every conceivable vintage, good, bad, and indifferent, and fitted with every degree of skill. It is not at all uncommon to see a gun with three or more serial numbers.

Some of the 'reconditioned' single actions now on the market are undoubtedly as safe and as dependable as are new guns—provided modern replacement parts were used. But how do you know they were? The cylinder is, unfortunately, not only the easiest but the most dangerous part to replace. Old cylinders were made to stand nothing more violent than black powder. Expecting such a cylinder to stand up to modern high velocity .32-20, .38-40 and .44-40 loads is asking for trouble.

Why the manufacturers have not long ago withdrawn these hot loads from the market is a deep mystery. The majority of guns chambered for these old cartridges are positively unsafe with hepped-up smokeless loads, and the users in most instances know it. Nonetheless, they blithely continue to court disaster by using modern loads in antique handguns—warnings on the box to the contrary.

Due to motion pictures or something, uninformed shooters feel that the older guns are stronger than the new ones. That's because the old stories are probably bigger. It is a significant fact, however, that the old rangers, ranchers, cowboys and lumbermen who really *used* the Colt, will today either sell their old favorites or give them away, even if they still need a handgun. They prefer modern weapons.

By 1909 the excellent Colt New Service revolver was available, and the S&W Triple-Lock made its appearance about the same time. There was no apparent reason for the single action to survive after this date, and it is one of the modern mysteries that it did.

It will pay the prospective buyer of a single action—assuming he's sucker enough to shell out a week's pay for it—to check all serial numbers on the gun, then to find out from a really reliable source when the gun was made. The oldest ones in heavier calibers will be strained even by the more severe blackpowder loads.

And now a word as to the actual age of the gun. Hollywood, please note! The Peacemaker, also in .44-40 called the Frontier and lately the Single-Action Army, is the Colt Model of 1873. Reliable authorities state that it was on sale in 1872. It most certainly was not in the hands of the bunch of Texas cowboys that made the first trail drive to Dodge City in 1865, as a recent 'authentic' and widely-heralded Western movie showed it! It was made until about 1940, when it was discontinued.

Two 'target' versions were produced. The Bisley model came out late in the last century, and was discontinued in 1912. The other, the flat-top, was discontinued almost immediately after its introduction. Neither achieved particular popularity.

The single action was a gun that everybody experimented with. It was made without an ejector, and in 4¾, 5½ and 7½ barrel lengths as standard, but any length may be met with. It was made in about every known caliber from .22 to .455. A partial list of calibers would cover a large part of this page. About the only real change in design was in the cylinder-retaining catch. The older ones have a screw. The grips were changed to two-piece and barrel rifling was changed once at least, but these do not affect appearance or use.

It is doubtful that the gun was ever as widely used as we are led to believe. Many early lawmen and outlaws used it, but the various double-actions were already popular in the period from 1880 to 1890. Usually these guns were much easier to carry in clothing, too. In the period from 1900 to 1910, double-actions became even more powerful and popular and by this time the automatic pistol was making its bid. It is fairly safe to say that the majority of serious shooters were away from the single-action by 1912. As to the stories of thumb shooting and 'fanning', the few guns found with the trigger gone should be a good index as to how many men actually used these methods of discharging the old guns. I daresay few men have seen more than one or two guns that were altered to shoot with the hammer alone. That it was done was a matter of record, but that the practice was widespread is not included in that record.

Most new buyers of the old guns will shoot them little—if at all. Those intending to use the gun regularly should check all parts for wear and age. A gun with an old frame, barrel or cylinder should be fired only with reasonable loads. Even the newer ones should be checked for defects before firing. The newer guns will stand very warm loads but may shoot loose very soon if such loads are constantly used.

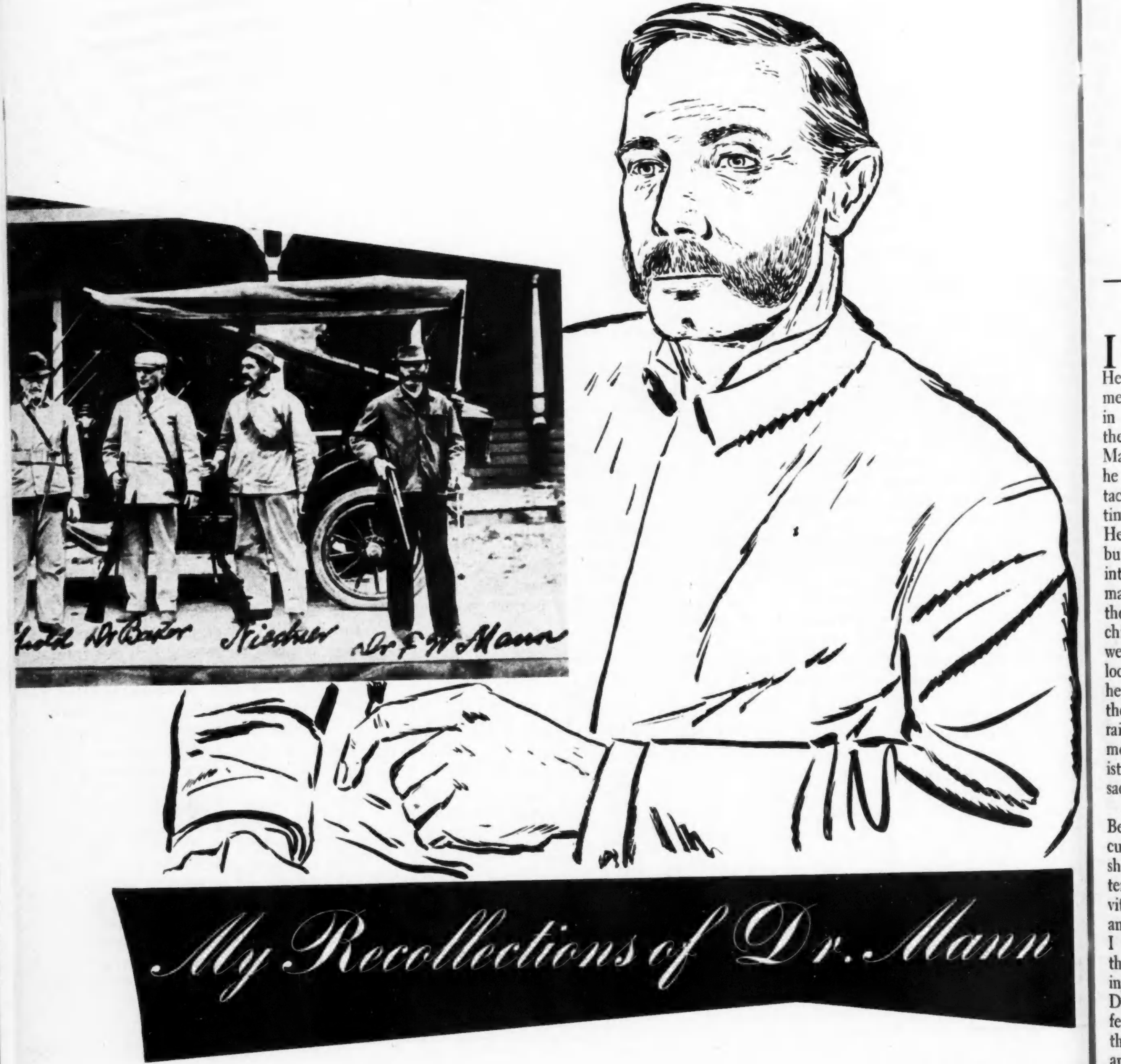
SAN FRANCISCO

"But George, the NRA convention doesn't start until October 2"

There is still no answer to why so many people want single-actions. It may be a war-conditioned urge to buy anything that is scarce, yet the gun was made in such numbers that it probably will never be really scarce. It may be that we moderns have been fed such a fearsome brew of Western movies, radio serials, pulp stories and comic books, that the gun has come to assume the proportions of the atomic bomb.

I think the answer lies deeper yet. It is a desire to escape tempered by a nostalgia for the past. This is becoming more and more apparent in our daily lives. The world is moving too fast and all of us feel a frenzied urge at times to get the hell out from under before something cracks. Some of us can get relief by reliving other, more leisurely days through our association with objects that were important to our forefathers. If we can pick up one of these savage-looking old cannons and hark back to the days of John Wesley Hardin and Wyatt Earp for a few minutes, who can say the old single action has not done a good deed? That's fine! More glory to our old weapons. But let us keep our enthusiasms in line with the facts as nearly as possible. Let's take the single-action off that pedestal, and stop making out of it something that it never really was! ◆ ◆ ◆

NEXT MONTH: *A few issues ago, a casual mention of German crossbows stirred up a totally unexpected flood of mail. Where could one buy . . . or how to make . . . a crossbow? So, headlining next month's* Rifleman *look for the first of two articles on the home-workshop production of a powerful, practical crossbow. Also, the second of Gerald Teasdale's simplified reloading articles, a picture feature on shooting the Garand rifle, and the story of a top-flight pistol shooter who unexpectedly had to relearn his whole shooting technique—with his left hand!*


Dr Baker
Niedner
Dr F W Mann

My Recollections of Dr. Mann

A great American gunmaker and rifleman looks back on his association with the father of modern ballistics

By Adolph O. Niedner
As told to John J. Barsotti

DR. FRANKLIN W. MANN *was one of the greatest ballisticians the world has known. He labored long and hard, and with scientific precision, trying to discover why all of his bullets would not go into the same hole. Much of what he found was published in 1909 in a book called* The Bullet's Flight, *which has continued to be a sort of Bible to those men who know that there is more to rifle accuracy than the 'p'intin' of 'em'.*

Dr. Mann was a pioneer ballistician who spared neither money nor time in his quest for the truth. There are few men living who knew Dr. Mann personally during the first decade of this century and up to the time of his death in November of 1916. Little has been written about him, and most present day riflemen are unacquainted with the man and the book. But from Dr. Mann and his few associates came many of the foundation stones upon which modern ballistic developments rest.

A. O. Niedner and Harry Pope are among those still living who knew Dr. Mann personally and who helped him conduct his experiments. Both men made barrels and equipment which were used on Dr. Mann's experiemental ranges. Niedner worked with him for ten years. Without doubt, Niedner knows more about Dr. Mann's work during the last ten years of his life than any other living person. Niedner believes that if Dr. Mann had lived he eventually would have brought out a second book based on experiments made after 1909.—Ed.

I REMEMBER DR. MANN WELL. He was the kind of person you don't forget. He was the best friend I ever had. I met him about 1904 or 1905, somewhere in there. He was about fifty years old then, a few years older than me. Dr. Mann was slight and trim in build and he wore neat side whiskers and a mustache. He was a well-to-do man by that time and was married and had a family. He had been a doctor and a good one, but he gave up his practice and went into the manufacturing business and made a success of it. His invention of the Mann Bone Cutter for grinding chicken feed was what made him wealthy. His home and business were located at Milford, Massachusetts, and he had his experimental range down on the old Homestead Farm where he was raised. Dr. Mann had the time and money he needed to experiment in ballistics and he was a member of the Massachusetts Rifle Association.

At the time I had my shop at 18 Beacon Street in Malden and was doing custom gun work. I was an active shooter at Walnut Hill and was very interested in ballistics. Dr. Mann invited me down to his range on the farm and I guess it was about the second time I was there that he showed me something that opened my eyes. I was shooting a rifle at 100 yards from the V-rest. Dr. Mann asked if he could put up a few paper screens for me to shoot through while I was warming up the rifle and I told him sure. I fired four or five shots and Dr. Mann kept putting up his paper screens. He asked me what the pitch of the rifling was, and a couple of other things, and when I started to shoot for a group he put out a screen for each shot a certain distance in front of the muzzle of the rifle. He checked his screens every shot and made a mark on a target he had on his bench in the shooting shed. I finished my string of shots and went down to get my target and when I brought it back Dr. Mann showed me the card he had been marking on his bench. It was almost an exact duplicate, shot for shot, of my target, which he hadn't seen until I brought it back to him. Well, I tell you my hair just about stood on end. It was something new to me. I was astounded. Dr. Mann just smiled. He said:

"It's simple. You know that one and one are two, don't you?"

"Yes," I said.

"And two and two are four?"

"Yes."

"And you know the number of inches in one hundred yards?"

"Yes."

"Well, if you know which way a bullet is tipping at a certain distance, and how many times it is turning in a certain distance then you can figure out where and how it will strike at one hundred yards."

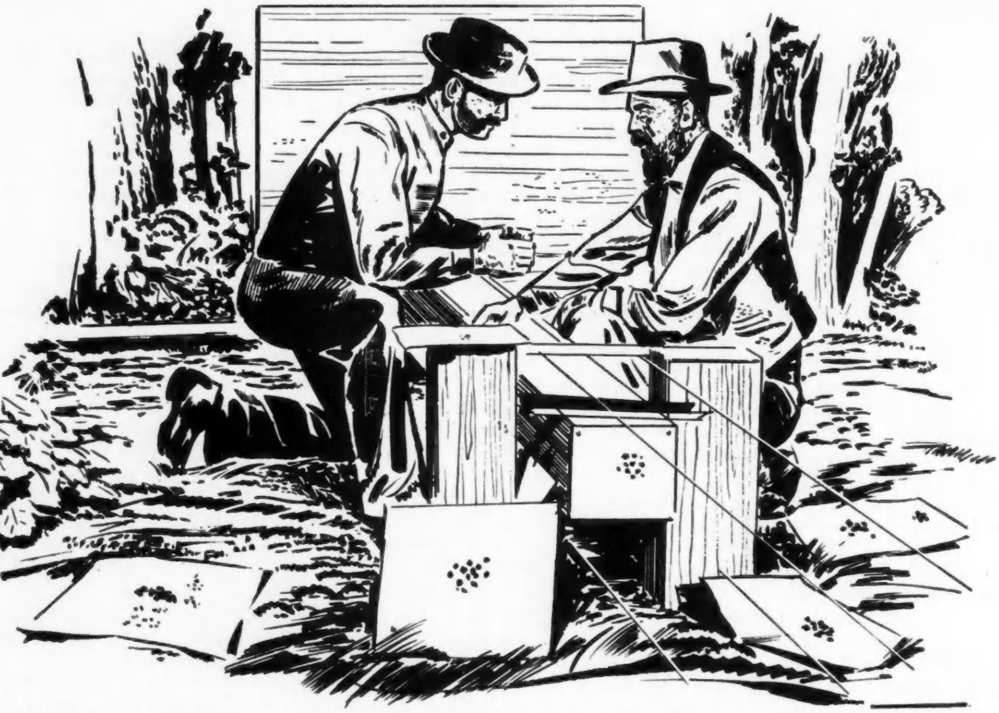
Dr. Mann was a genius. He was fifty years ahead of his time. His book was the best thing of its kind ever written. It didn't sell very well and he told me once that he lost about six thousand dollars on it. He gave a lot of copies away to his friends. He had spent many years finding out the information published in that book and it was a shame so few appreciated it. Dr. Mann wrote articles for magazines like *Arms and The Man* which gave the results of a lot of careful experimenting in ballistics and his work was criticized by damn' fools who didn't know what they were talking about but who could punch a typewriter. Toward the end he wouldn't write for magazines any more. The same was true of our mutual friend Ed Leopold.

One time Dr. Mann was in my shop and I asked him a question regarding some ballistic problem. He didn't answer me and after he left I forgot about it. About three weeks later I got a letter from him containing the answer to my question. The letter Dr. Mann wrote said something like: "On such and such date you asked me a question which I couldn't truthfully answer but since then I have made the experiments and here is your answer." He wouldn't trust to memory and if he couldn't be sure of giving the right answer, he kept still. He had too much information stored in his head and he was afraid of giving the wrong answer. That's the kind of a man he was. He wrote everything down and put a date on it and filed it away in special cabinets he had built. He always told me to make a record of everything I did in the way of an experiment.

"Write it down, Niedner," he'd say. "That way you can be sure."

He had been trying for years to find out what made a bullet go wrong. He wanted a scientific answer and in order to carry on his experiments he wanted the best equipment. He didn't let expense stop him. If he wanted something made up special he would explain it to me and I'd make it for him. Many a time he said to me: "Niedner, all I have to do is to give you the idea and you can work it out."

Sometimes Dr. Mann would get me to make up a rifle or an action and when I got it finished he'd ask if there were any changes I'd make if I were to make another. I'd tell him yes and he'd say, "Now go ahead and build me an improved model and keep this one for yourself."



Mann (left) discovered that bullets fired into a long box filled with oiled sawdust could be recovered undamaged for study

We were always trying to make more perfect bullets as we found by experiment that the main reason why one bullet couldn't be made to follow another into the same hole at a hundred or two hundred yards was because they were unbalanced, no two bullets being the same. We found that the only way to find a perfect bullet was to fire it; then it was too late. We tried making our own bullets from a lead core and a copper jacket. We made up a series of dies for making copper bullet jackets but gave it up after a lot of experimenting as the copper was too soft to get good results.

We made and fired bullets that cost a dollar-and-a-half apiece. Some we turned out of steel or bronze, making them by hand on the lathe. There were .25-caliber steel bullets that had a German silver base band 1/16 of an inch wide soldered on the base to take the rifling. The body of these bullets was hardened and the noses were finished to a tit and were soft. We used them in penetration tests. We fired them into steel blocks about three-quarters of an inch thick and two or three inches square. It was necessary to have a soft, or unhardened nose on the bullet in order for it to mash and form a cup for the bullet to spin in and penetrate the block it was fired against. Dr. Mann found that out from his study of naval cannon projectiles used in the penetration of ships' armor. Without the soft nose, the projectile was likely to glance off in the direction it was tipping when it struck. In some of the penetration tests we found that the bullet failed to penetrate clear through the block but tipped and came out the side or the top of the block. We also found that if a bullet fails to penetrate it will sometimes follow straight back along its line of flight. We had bullets come back and strike the muzzle of the rifle in the V-rest. After one or two near accidents we always covered the man at the V-rest with a heavy horse blanket for protection in case a bullet came back. When steel bullets were fired into oiled sawdust and recovered, they could be fired over and over again by just soldering on a new base band each time. Of course, in penetration tests we could fire them just once.

In order to get better bullets Dr. Mann had made up a bullet press which is shown on page 17. Later, he wanted a more powerful press and he had me make two, one for him and one for myself. They were very powerful presses and had a flywheel and lever for applying pressure. The rams were ground by Brown and Sharp. We used those presses in making up the different jacketed bullets were experimented with.

A few years before Dr. Mann's death we decided to build a two-hundred yard covered range on the Homestead Farm. Dr. Mann, his brother William, and I built it on the other side of the New York and New Haven Railroad tracks from the old range. It was made from lumber cut in the sawmill on the farm. There was a shooting house attached to the range and it was stocked with provisions and even had two beds which swung up to the ceiling out of the way. We could live at the range while conducting a series of experiments. The covered range had windows along the sides and two doors, one at the far end and one at the halfway mark, and there was a swinging bulkhead at the middle. If we wanted to shoot at a hundred yards, all we had to do was to move the bulkhead into place to stop bullets. At first we had some trouble with air pockets inside the range but Dr. Mann installed a large blower which did away with that difficulty.

There was a V-rest on a big concrete base. I spent a lot of time working on the V-rest, finishing it up by hand, scraping it to get it as near perfect as possible. Dr. Mann had several professors try their hand at laying out a base line for the V-rest, and his brother tried, but all of them failed. They couldn't lay out a base line that would remain constant. Harry Pope and I went down one night and laid out the base line after midnight, and after that we had no trouble with it. It remained constant. The V-rest was made so that a barrel or a telescope fitted with concentric rings could be laid in it and the center of the bore or the crosshairs of the telescope were on the center of the black at the target butt. The V-rest was a machine rest without adjustment. When a barrel was fitted with concentric rings and a concentric action and fired from the V-rest to get a group, it did away with the human error in aiming.

Those concentric actions were cylinder shaped and screwed onto the breech end of the barrel. In the action was the firing pin and bolt, which was drawn back with a hook to cock the action for firing. They had to be removed for each shot to place a fresh cartridge in the chamber. The ones I made for Dr. Mann were fired by giving the bolt a slight turn with the end of a screwdriver.

We did a lot of experimenting on that covered range and had some good times there. I used to come up on the train from Malden and get off at the Highland depot and it was just a short walk up to the range. Dr. Mann left the key hanging beside the door and when we weren't using the range for experiments, anyone who was careful was welcome to shoot there. After Dr. Mann died the range was torn down. When I went by there about 1922 only the shooting house was still standing. I had moved out to Dowagiac then and had come east on business. The sight of the old shooting house standing alone made me feel blue.

I did a lot of unusual work for Dr. Mann, experimental work in order to find out things about the flight of bullets. Take some of the barrels I made for him. I made barrels that were six feet long and I made some so short the tip of the bullet stuck out the end of them. The six-foot barrels were made by screwing two barrels together. We fired them in experiments to see if we could get away from muzzle blast in high-powered rifles, but even with a barrel that long we didn't get away from it and its effects. Maybe with a barrel ten feet long there'd be a difference.

We found that the cause of bad shots was due to the bullet about eighty-five percent of the time. It takes a perfect bullet to fly true. Some of the old-timers, the old match riflemakers like Horace Warner, Brockway, and Perry, knew that, and they went to a lot of trouble to make fine bullets. Brockway swaged bullets cold from lead wire; he got good bullets that way. Another thing is to take great care in loading absolutely the same every time in order to get accuracy. Any variation will show up in some degree at the target. Dr. Mann used to say "Like conditions get like results", and that is an important thing to know and remember if you're after accuracy. We can get a perfect or nearly perfect job of rifling and chambering but we can't get perfect bullets. And if you do have nearly perfect bullets, you must deliver them from the rifle exactly the same every time.

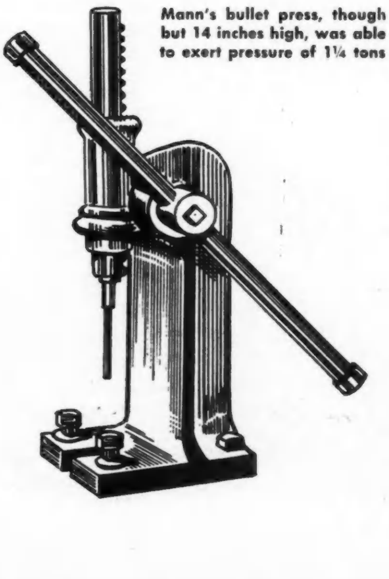
There was another thing we had trouble with back in the early days when we were experimenting with high-velocity cartridges. That was powder and primers. They have done wonders with powder and primers since the days before the first world war.

After I made up the Hamburg action in 1912, in order to have a very strong action to use in testing high-velocity cartridges and chamber pressures, Dr. Mann wanted me to make him one. I made him a fine screw-bolt rifle, a single shot, caliber .25, chambered for the Krag case necked down. It was an improved model of my Hamburg rifle and had screw-type locking lugs. I did a nice job of stocking the rifle and it made a fine hunting arm.

I also made Dr. Mann a .25-caliber bolt-lever rifle. I had remodeled a Sharps-Borchardt for Dr. Baker and made a new breechblock for it with a cocking knob like a bolt-action rifle. Dr. Mann had me build him a similar rifle and I made it complete—barrel, action, and stock. It was built along the lines of the Sharps-Borchardt but with an outside cocking knob on the rear of the breechblock. The stock was in one piece and fitted around the action like the stock on a bolt-action rifle.

At that time I was making a type of firing pin for single-shot rifles that could not blow out. It was a good firing pin but I did not consider it correct for the bolt-lever rifle. But Dr. Mann wanted one of those firing pins installed in his rifle so I had to put one in for him after warning him about it.

About this time Harry Pope, Dr. Mann, and I went up to Walnut Hill range together on the train and Frank took this bolt-lever rifle along to shoot in the director's match. I went down to one side of the range and was shooting when someone came running up and said: "Come quick, Niedner, Dr. Mann's hurt! His gun blew up!"

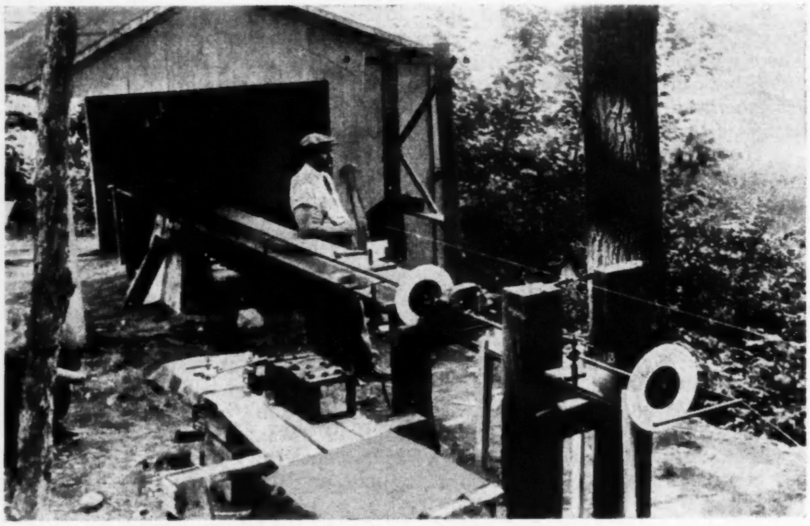

Mann's bullet press, though but 14 inches high, was able to exert pressure of 1¼ tons

I ran over to the shooting house and Frank was leaning against the side of the building with both hands and had his head down. The blood was streaming from his nose. I led him over to the pump, washed the blood off his face, and got his nosebleed stopped. I could see he wasn't hurt bad. I asked him what had happened and he said: "The gun blew up." After he began to feel better I went over and picked up the rifle and looked at it. The breechblock had been wrecked but had held and the firing pin hadn't blown out. Putting in that new firing pin had weakened the breechblock, as I had told Dr. Mann it would, and the cocking knob had blown back and struck him on the nose. It made a little round mark right on the end of his nose which he carried to the grave with him. I had to make an entire new breechblock for that rifle afterwards and it was one of the rifles his family kept after Dr. Mann died.

Every year, late in the summer, a party of us would go over to Shushan, New York, to hunt woodchucks. That section was a regular woodchuck preserve and the farmers were glad to see us thin them out. There'd be Dr. Mann, Ed Leopold, Dr. Henry Baker, and myself, and sometimes Harry Pope, John E. Kelley, and once Charles Newton came for a week or so. We generally stayed at the Shushan House where we had a gun room and a place to loaf. We wrote records of our hunts and experiments on the walls of the room.

We had a great time on those hunts. Out at the edge of town, we had a 200-yard range where we did a lot of experimenting when we weren't hunting. We had a ruling that any shot under a hundred yards on a chuck had to be taken offhand. Dr. Mann never cared much about killing chucks but he'd go out and shoot a few. We used to pair off with different partners each day and kept a tally of the number of chucks we shot by bringing in the tails.

One time we had gone out there for a hunt and Dr. Mann had a new single-shot rifle with a telescope sight on it. The outfit shot high at two hundred yards. We couldn't adjust it to shoot any lower and Dr. Mann was ready to give up and go home. That evening, before we turned in, I told him to let me have the rifle as I had figured out a way to correct it. The next morning I got up early and walked out to a hillside beyond the town and looked around until I found two birch trees growing close together. I stuck the barrel of Dr. Mann's rifle between the two trees and



Adolph Niedner on Dr. Mann's range, 1912. He stands beside a Mann-Niedner disc chronograph, which they developed together

bent it down a little, just about what I figured was needed to make it shoot lower.

I went back to town and when the rest of them got up I turned the rifle over to Dr. Mann and told him to try it out. Well, I had bent it just enough. It shot dead on at two hundred yards. Frank used that rifle during the rest of the time we spent at Shushan that trip and he said it was the best shooting rifle he ever had to hunt with. He wanted to know what I had done to it but I wouldn't tell him. Along in the winter, months later, he was in my shop one day and he asked me again about that rifle. I told him about taking it out and bending the barrel. He jumped up, all excited, and said:

"You spoiled the barrel!"

I just laughed and told him, "Frank, you always claimed that was the best shooting gun you ever had."

It was at Shushan that we tried out the .25-caliber Hamburg rifle on chucks. We were using the Krag case and a 103-grain base-band bullet. That was back in 1912 and we were getting close to 3400 feet-per-second velocity and fine accuracy from the cartridge. I had a 16-power scope on the Hamburg rifle and all I had to do was hold on a chuck up to three hundred yards and he was mine.

I wasn't with Frank on his last chuck hunt. He and Harry Pope went up to Shushan together in August of 1916. Here is the letter he wrote me from there.

"*Friend Niedner—*

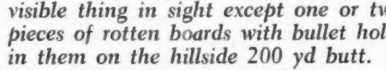
The old gun room burned down some time ago. I have just walked up to the old place and back again from Mr. Lovejoys and taken my last look of the ruins. The old gun room has forever gone.

This morning I put three shots over our old range and then sat down under the trees. Shot three chucks back of Dempsy's and over on the hillside toward the 200-yard butt to the left.

It was lonesome and it made me homesick. Every stake, board, and post have entirely gone. The heap of stones back of the 200-yard target was the only visible thing in sight except one or two pieces of rotten boards with bullet holes in them on the hillside 200 yd butt. It does not seem that time has gone so fast . . . It is lonesome up here . . . Shall start towards home to-morrow and reach home about Saturday. . . ."

The last two months of Dr. Mann's life I was on a jury and didn't get to see much of him. It was during that time he did all of his work on extreme high velocity. He was after 8000 feet-per-second velocity. He told me he got 4000 feet per second and even higher but he did not want anyone to know how he did it. It was dangerous work and he was afraid someone would try to do it his way and get hurt. He was always after me to get him powder that would give him higher pressures and I sent him all kinds to try. His idea was to start the bullet off slow and then hurry it up after it was started.

"He's off to San Francisco for the NRA convention"



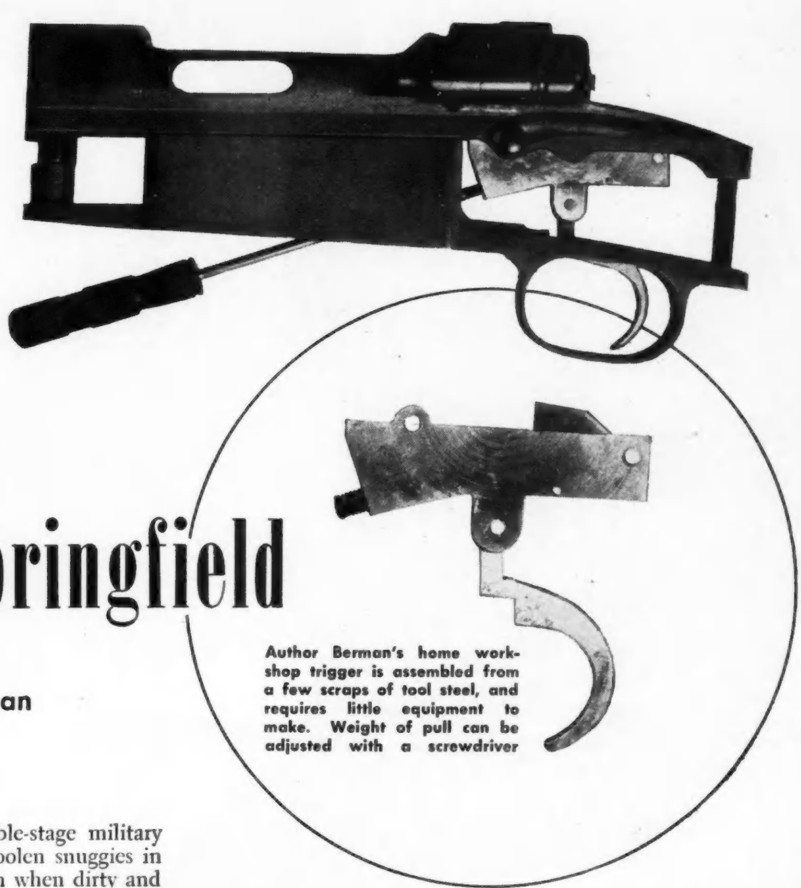
There was a man out in California experimenting with high-pressure loads and he sent a rifle to me to try out. It was .40 caliber and used a big load. I took it down to Dr. Mann's range to test and he asked me if I was going to fire it from the shoulder and I told him no. I fired it from the V-rest and nailed two pieces of two-inch plank together in a V to place over the rifle. Dr. Mann was out at the hundred-yard target butt when I fired the first shot and it split the planks into four pieces. The bullet never got to the target. It was blown all to pieces. I nailed two more planks together as before and fired another shot with the same results. Dr. Mann came up from the hundred-yard butt and told me to stop firing that load. I did as he said and I packed up the rifle and the rest of the cartridges and sent them back to the man in California. I refused to make a report regarding the pressure and velocity as he had asked me to do. The method of loading he was using was to start the bullet slow with a small charge of black powder first and then to hit it a heavy wallop with 63 grains of smokeless for high velocity.

Dr. Mann did a lot of work with front ignition of the charge along the lines of what is now called Duplex loading. It is nothing new. But it is very dangerous to fool with high velocities in a rifle unless you know what you are doing. High velocity without accuracy doesn't mean much. I have always thought that a cartridge which gave 3400 to 3500 feet-per-second velocity with good accuracy and long barrel life was fast enough.

Our years of experimenting came to an end with Dr. Mann's death. He died suddenly at his home in Milford on November 14, 1916. I was impaneled on the jury at that time and couldn't even go to his funeral. He was a kind and charitable man and the work he did in the ballistics field was so far ahead of his time it wasn't appreciated when he was alive. I owe my knowledge of ballistics to Frank Mann and I spent some of the happiest years of my life working with him. I was lucky to have known him and I lost my best friend when he died. ◆ ◆ ◆

Thanks are due Morris Van Way of Shelbyville, Indiana for help in the preparation of this article.—I. J. B.

A RIFLEMAN
"How to do it"



TRIGGER for your Springfield

Author Berman's home workshop trigger is assembled from a few scraps of tool steel, and requires little equipment to make. Weight of pull can be adjusted with a screwdriver

by Fred F. Berman

To most gun cranks that creepy, double-stage military trigger pull is about as obnoxious as woolen snuggies in July. An Army rifle is built to function even when dirty and therefore the bolt fits loosely into the receiver. Because of the ensuing play the cocking piece shifts its point of contact with the sear, and any improvement of the issue trigger must retain a margin of safety to insure positive contact. Unfortunately, this same margin prevents gun editors from raving about such conversions.

Hopeless cause? Not on your life! Let us just dispatch the old parts to the happy hunting grounds and proceed to build a brand new trigger with little effort and lesser expense. The mechanism described herein is independent of any loose-fitting bolt and therefore absolutely safe from accidental discharge. Furthermore, we can adjust from a cold-fingers-in-the-woods five-pound pull to a hard-look half-pound letoff by use of a set screw accessible through the floorplate. Except for lengthening the sear slot we need not alter the action in any way. And to prove to ourselves that this trigger is the crisp, clean, easy-to-build gadget its designer claims, let's roll up our sleeves and go to work.

Our tools are a small bench vise, a couple of sharp files, a hacksaw, the use of a drill press, and a bit of basic mechanical skill in the shop. For raw materials we gather some scraps of 3/16-inch flat tool steel stock, a piece of 11/32-inch steel roughly two by three inches, a two-inch length of ⅛-inch diameter drill rod, a foot of No. 9 piano wire, and an 8/32- by ½-inch headless set screw.

Another view of the adjustable Springfield trigger. For the details of construction, see the scale drawing on page 34

We coat our flat stock with layout dye and mark outlines and hole centers of housing, sear, and trigger bar. For tight pin fit we drill holes 1/64 inch undersize and use the final drill like a reamer. Next we saw and file the outlines, cut off the pins, and wind the piano wire on a 3/32 diameter mandrel. We assemble the parts, making sure the contact surfaces of sear and trigger bar are filed square. Now the sear slot in the receiver must be lengthened forward about ¼ inch. Use a square file, and if necessary, grind through the case-hardened surface. Sand smooth the sharp edge of the cocking piece where it strikes the sear. After trying the assembly in the action, hone the sear shoulder and the contact surfaces of sear and trigger bar and harden these two parts. If your trigger pulls too easily, use an adjustment spring of heavier piano wire.

Next fit the action in the stock by carefully removing from the receiver mortice any wood obstructing the new trigger group. Also drill a 3/16-inch hole through the rear magazine wall for access to the set screw.

Basically, Mauser and Enfield actions have similar trigger mechanisms to that of the Springfield. Therefore, by changing the shape of housing and trigger bar our new trigger can easily be adapted to any Mauser-type rifle. I feel certain that your finished handiwork will bear the closest scrutiny of the shrewdest and fussiest of trigger pullers.

For the details of this simple trigger mechanism, refer to the working drawing on page 34.

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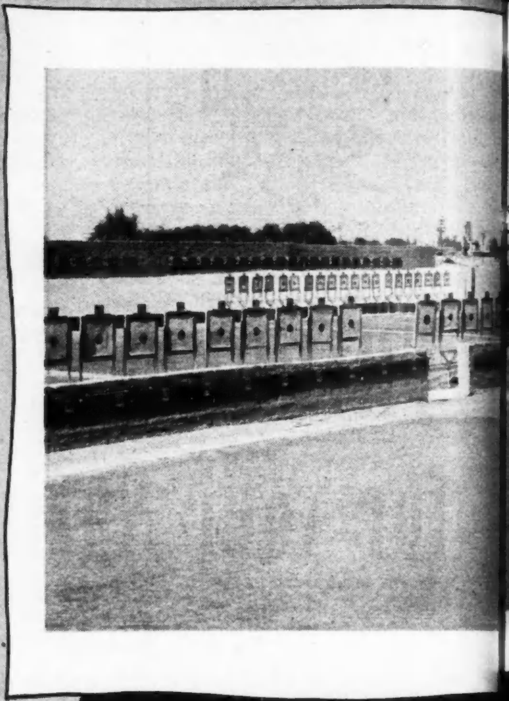
CALEXICO
GUN
CLUB

Shooting can be Fun

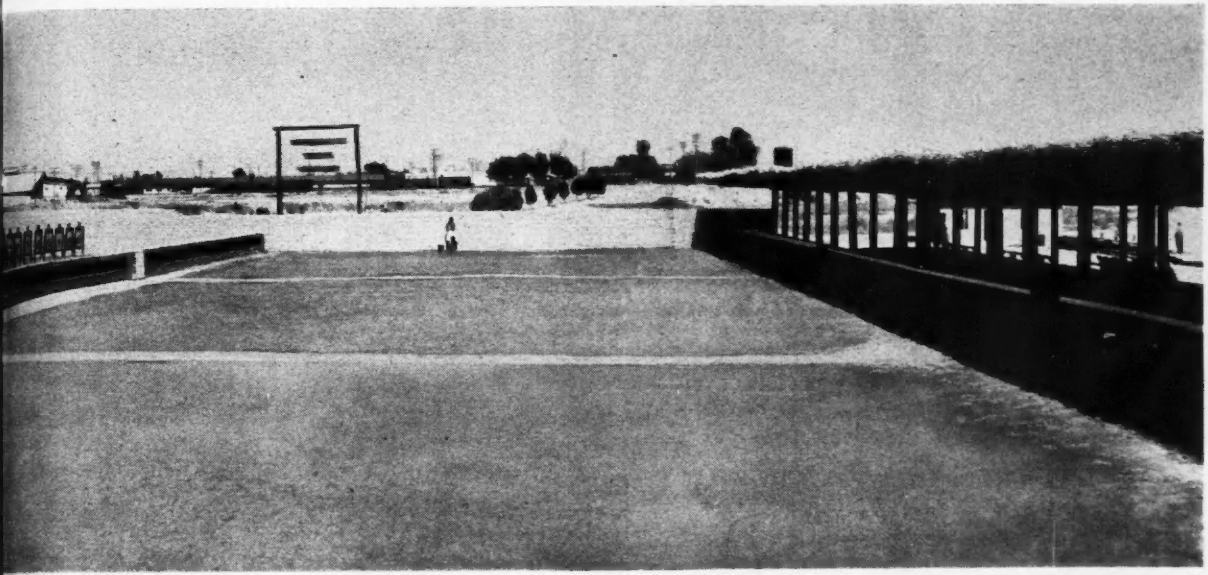


A HAPPY TREND is in evidence in the usually too serious target-shooting game. Tournament sponsors are more-and-more realizing that they can better attract shooters by scheduling such events as dances and informal barbecues than they can by cramming programs with dead-serious target contests. Prime movers in the campaign to prove that you can have fun though shooting have been the sponsors of the National Midwinter Pistol Matches at Tampa, Florida, and the members of the Calexico (California) Gun Club. To bring back pictures of some of these happy shooters, the RIFLEMAN sent outdoor photographer Charlie Niehuis to the South Pacific States pistol championship, which was staged on the Calexico range May 5-6-7. In the pictures on this and the following pages Niehuis proves once again the appeal of a shooting program that offers not only sound, well-managed target events, but a sand pile and swings for the kids, a bridge table for non-shooting wives, and a warm smile of welcome from the townsfolk who organized the tournament.

Big wheels behind the Calexico story are these three: Bill
dexter, Pat Patterson, and (right) chief range officer Bill

The
enc

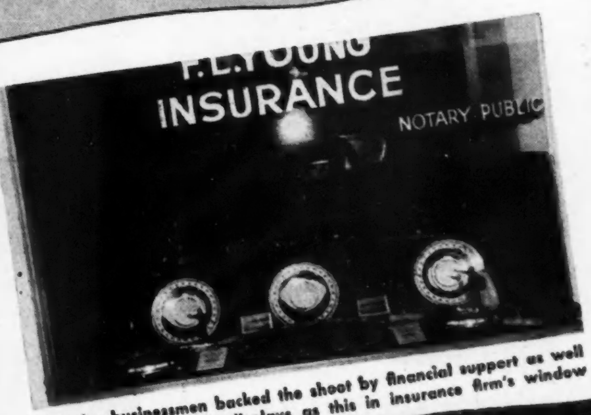
**Photographs for THE AMERICAN RIFLEMAN
by Charlie Niehuis**



Calexico's fine 60-target pistol range was completed in 1948

BEAUTY REST MATTRESS

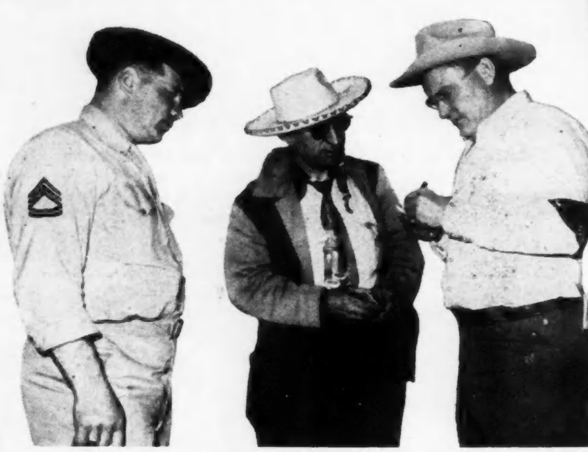
The firing line at Calexico during the '50 regional. Second man from camera is famed pistolman Emmett Jones


F.L.YOUNG
INSURANCE
NOTARY PUBLIC

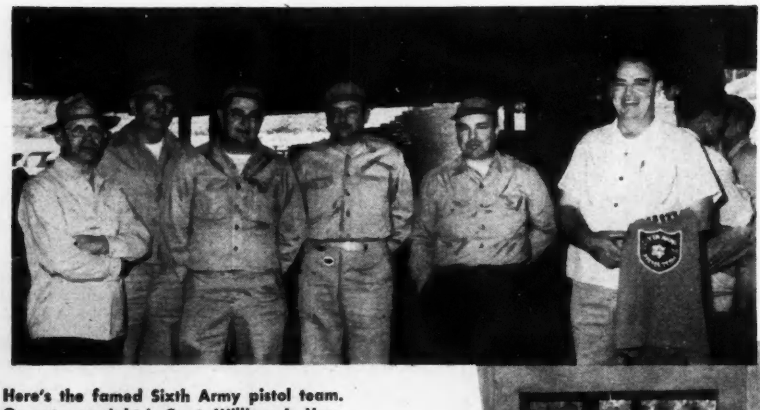
Calexico businessmen backed the shoot by financial support as well as by arranging such displays as this in insurance firm's window

Sun-dried adobe brick is material mainly used in construction of Calexico's fine range. Shooters in this picture are members of the US Navy team

Jack McKenna, Colt representative, and Remington Arms man J. V. Elliott were pressed into range officer duty



Vincent Gange (center), Huntington Park, Cal., checks in with NRA fieldman Lee Echols, as Marine Tech. Sgt. R. R. Becker listens in



Here's the famed Sixth Army pistol team. On extreme right is Capt. William A. Hancock, who captured regional title honors

Range house behind firing line provided bridge tables and general get-together spot for competitors, guests, and members of the host club

Local Campfire Girls were babysitters and superintended kids' play area

This meeting of Calexico's Siesta Club included several national record holders and an NRA Executive Committee member!

After dark entertainment included this dance arranged for the shooters by the members of the Calexico Club

Highlight of the three-day Calexico program was this western barbecue, at which 350 people ate all they could hold—and for free

Tired but happy, shooter Luther Yocum of Navy team leaves for home.

◆ ◆ ◆

EYE SIGHT

Conclusion

By A. M. Libasci, MD

If you have eye trouble, an examination is in order. Should you go to an optician, an optometrist, or an ophthalmologist? Let's unscramble those four-dollar words.

The *optician* is the 'manufacturer' of our trio. He grinds lenses, makes spectacles, and dispenses them according to prescription, as does the pharmacist with drugs. He does not examine eyes.

An *optometrist* is a professional man with a degree in optometry. He is a specialist in refraction examinations and is licensed to practice optometry by the state, as are doctors.

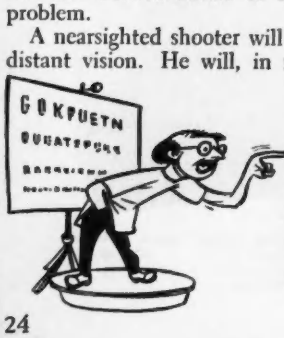
An *ophthalmologist* ('oculist' is practically synonymous) is a doctor of medicine who specializes exclusively in diseases of the eye. He is qualified to do eye surgery. He is the eye specialist par excellence.

Any of the three can cope with your eye troubles. Your choice depends upon your needs.

Shooters who must wear glasses need not despair. Many of our finest shooters have refractive errors. Remember, quite a few of our topnotchers are over forty and the majority of them are likely to be farsighted.

A farsighted shooter will have trouble getting clear definition either of the target or sights—the latter more than the former. Convex lenses of appropriate power will solve his problem.

A nearsighted shooter will have the greatest difficulty with distant vision. He will, in most cases, not have too much trouble with his sight picture. Nearsighted rifle shooters are apt to have more trouble than pistoleers, especially in gallery shooting, because of generally bad lighting conditions. As is true with the farsighted shooter, there is no special problem in correcting nearsighted eyes. Concave lenses of appropriate strength will accomplish wonders in clearing up the target picture.



Astigmatism, even if minor, should be corrected. Explain to your examiner that you are a shooter and that you want even as little as one-quarter diopter of astigmatic error corrected. These minor errors entail painstaking care to detect but are worth the effort to the serious shooter.

The condition that presents the greatest problem to the shooter is presbyopia. This, remember, is the condition commencing between the ages of 42 and 45 in which the eye lens loses its elasticity and its ability to focus on near objects. The presbyope cannot get a clear focus on near objects. The result is a blurred and indistinct sight picture.

Unless the presbyope explains to the examiner that glasses for shooting are desired he will prescribe reading lenses for a focus at 14 to 16 inches. These will not give clear vision at distances of rifle or pistol sights! The presbyope must be given a corrective lens for focus at the distance of his sights. This lens will be weaker than his reading lens.

The best method of selection is by trial and error. Take your gun to the examiner's office (give him advance warning, and consult local firearms laws!), and have him fit you with lenses of varying strength in a trial lens frame. You will have to decide for yourself what you want. Remember that no one spectacle lens can focus near objects and far objects with equal sharpness. You will find that as the sight picture gets clearer the target becomes more blurred! The stronger the lens you select to give a clear definition of the sights, the more target clarity you will sacrifice. Select the weakest lens that will give you a satisfactory sight delineation.

Don't worry too much if you find now that your target is not clear. You'll do all right. I have many times experimentally fitted shooters with spectacles that would blur their distant vision but not the sight picture. In all cases they have been able to do good shooting. In some cases they even improved!

Bear this in mind. A presbyope's shooting glasses will not be suitable for reading, as they will be too weak. Your shooting correction can be used only for shooting! You can, if you wish, get a trifocal glass which will have your distance correction, your reading correction, and a small segment for your shooting correction. These are expensive and tricky. I would not recommend them.

One further point: Pay special attention to the juniors! If your junior rifleman's progress is below average, if he complains of a fuzzy target, or if he gets an occasional uncalled wild shot, suspect eye difficulties and have his eyes examined.

The next subject is that of tinted lenses.

Light varies from very short waves (ultraviolet) through the violet, blue, green, yellow, orange, red, to long waves (infrared) of the spectrum. Visible light ranges through violet, blue, green, yellow, orange, and red. The eye selects these colors in varying proportions. It has the highest sensitivity to the yellow and green central portion of the spectrum and the lowest for the extreme end (violet and red). Your eye does not 'see' the ultraviolet and infrared portions of the spectrum.

The human eye, like all single-lens optical systems, is not achromatic. That means that it is not equally sensitive to all colors. There is considerable chromatic aberration, that is, the light rays of different colors are not focused on one plane in the retina. The violet and blue waves come to a focus in front of the green and yellow, which in turn are in front of the orange and red. The central portion of the spectrum, green and yellow, come to the sharpest focus on the retina. The ultraviolet rays focused in front of the green and yellow cause three-quarters of the chromatic aberration of the eye and hence are most responsible for blurred vision and halo effect.

The visual sensitivity curve of the human eye is therefore an attempt by nature to correct the chromatic aberration by selecting for vision the rays that cause the least trouble, namely, the yellow and green portion of the visible spectrum. Conversely, the eye rejects for vision those rays that cause the most aberration, the violet and red. See chart below.

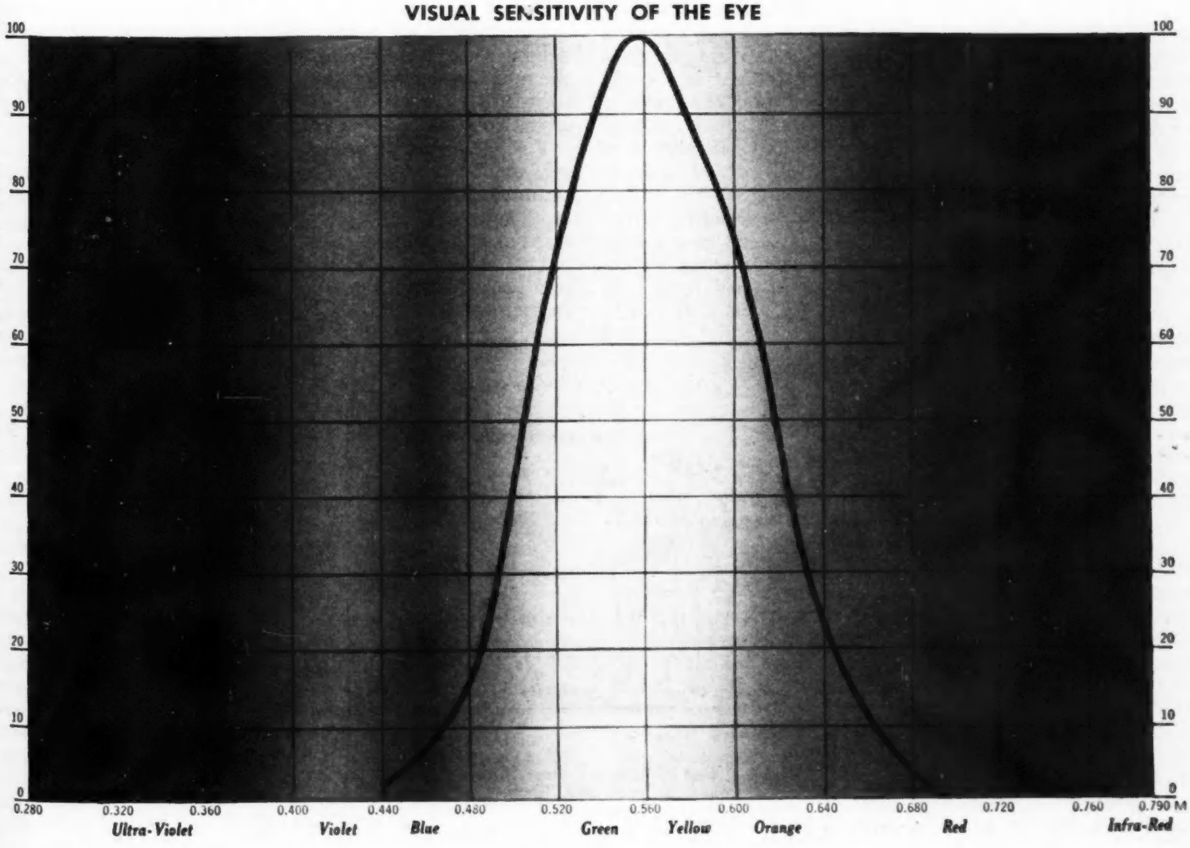
Tinted lenses for general outdoor use are worn to protect the eyes from too much visible light and from other dangerous or potentially dangerous light radiations—namely ultraviolet and infrared. Excess ultraviolet radiation is definitely harmful to the eyes. The effect is insidious as the full symptoms are not felt until 6 to 8 hours after exposure. The infrared rays are heat rays and the danger from these is not too great as one is forewarned by feeling a burning sensation on the face and eyes. In any event neither the ultraviolet nor the infrared rays are of any aid in vison. The first requirement therefore of a tinted lens for general outdoor use is that it exclude most of these radiations.

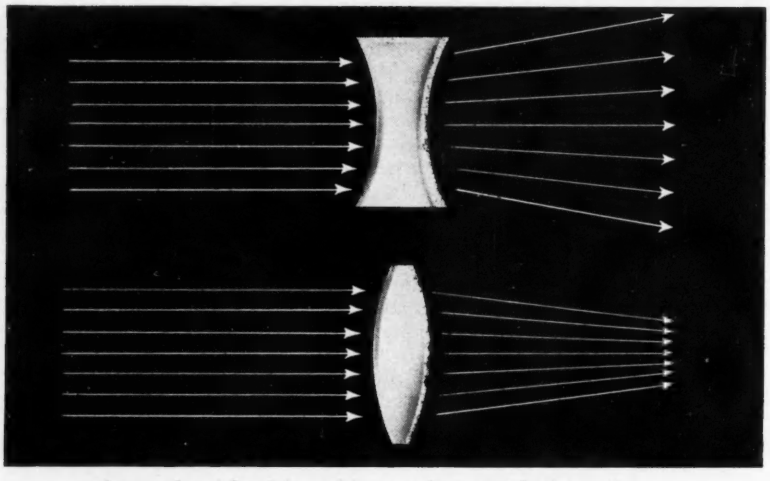
In addition a tinted lens for general outdoor use should reduce visible light for comfort. This depends on the shade density. Leading manufacturers are attempting to standardize shade number designations. Thus the letters A, B, C, and D or the numbers 1, 2, 3, and 4 designate light transmission of about 75, 50, 25, and 10 percent.

Lastly, a tinted lens for general outdoor use, especially for driving, should not seriously impair color discrimination or cause confusion in distinguishing colors of traffic signals.

By far the most effective, popular, and widely used tinted lens is the blue-green type. This type filters out (that is, refuses to pass) almost all of the ultraviolet and infrared rays. Colors are distorted only slightly and there is no confusion in distinguishing traffic lights. They are manufactured in various

VISUAL SENSITIVITY OF THE EYE



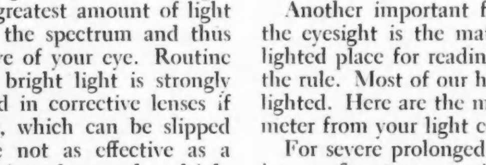


Concave lens (above) is used in correcting nearsightedness. Convex lens (below) supplies opposite effect for correction of farsightedness

density shades. Well-known and popular brands are the Calobar of American Optical Company in shades B, C, and D; and The Ray-Ban of Bausch & Lomb in shades 1, 2, 3, and 4. There are many others, such as Ozark Green of the Mitchell Optical Company, Wilsonite, Cesco-Antiglare, etc.

These blue-green tinted lenses in appropriate shade will transform a painful, uncomfortable, hot, and irritating scene into a beautiful, cool view. With them you can actually see better, because they cut out all the ultraviolet and infrared rays and also reduce glare by reducing the amount of light admitted to the eye. They pass the greatest amount of light in the green and yellow portions of the spectrum and thus follow very closely the selectivity curve of your eye. Routine use of this type of lens outdoors in bright light is strongly recommended. They can be obtained in corrective lenses if needed. 'Hook-ons' are also available, which can be slipped over corrective spectacles. They are not as effective as a separate pair of spectacles, since they introduce and multiply reflections.

The main requirement of tinted lenses for shooting is that they completely absorb the ultraviolet rays and give a high degree of transmittance in the yellow or yellow-green portion of the spectrum. For outdoor shooting in good light (not overcast) the best lens to use, in my opinion, is the blue-green type such as the Calobar or Ray-Ban. These should be chosen preferably in shade D for Calobar and 3 for Ray-Ban. Weaker shades will not reduce the glare of bright sunlight. By all means have these ground to your prescription if you need corrective lenses.



"Wait till you see those beautiful guns at the NRA convention."

For outdoor shooting on overcast days or in early morning or late evening and for routine indoor shooting a yellow-tinted lens is the best. Yellow lenses will change a dark, dull day into a brilliant, sharp, clear one. They are wonderful for all forms of shooting. I would not advise them for routine use in bright sunlight as they may be too irritating because they do not reduce glare. A yellow-tinted lens transmits about 90 percent of light compared with 75, 50, or 25 percent for the blue-green tints of varying shades. The yellow-tinted lens is definitely not a sunglass!

Yellow lenses for shooting glasses can be obtained from various manufacturers. They are almost identical. There is the Kalichrome of Bausch & Lomb, the Nite-Lite of Mitchell, the Noviol of American Optical, and many others.

For indoor shooting, where lighting conditions are far from ideal, the yellow lens is far superior to the blue-green unless one selects very light shades of the latter, such as the B or C in the Calobar or 1 or 2 in the Ray-Ban.

Do not fool with the sunglasses you see in the 5 & 10 or on sale in bargain basements. They are not ground properly and will introduce refractive errors.

One last word about tinted lenses. Never wear tinted lenses of any kind indoors unless your doctor has prescribed them!

A few words about care of the eyes. Should a target shooter restrict his reading? Should he abstain from going to the movies? How about television? My advice is to take the sensible viewpoint. Don't be afraid to use your eyes. If you can't use them normally, have them examined. Researches show that after eight hours of critical near vision such as reading, there is a loss of only 2 or 3 percent in visual acuity.

Reading when drowsy or tired is not advisable. Under these conditions the ocular muscles are relaxed and activity by a conscious effort of the will and expenditure of energy results.

Another important factor in the care and preservation of the eyesight is the matter of adequate lighting. A properly lighted place for reading at home is more the exception than the rule. Most of our homes and places of business are poorly lighted. Here are the minimum requirements. Borrow a light meter from your light company and test your surroundings.

For severe prolonged reading such as newsprint, bookkeeping, or fine type, a minimum of 50 to 100 foot candles is recommended. For ordinary prolonged reading of ordinary type such as this, 20 to 50 foot candles is required. For occasional reading, 10 to 20 foot candles is sufficient.

Do not read in a darkened room with only one light source over your chair. Do not work at a bench with only one light source over it and the rest of the room dark. Do not shoot in a darkened range with lights only at target. Under these conditions your pupils are alternately dilating and contracting as you raise your eyes and lower them.

People with uncorrected refractive errors sometimes compensate by using stronger light. If you find yourself demanding stronger light than those around you, suspect eye trouble.

A final word: Your efficiency as a wage earner, your safety and welfare, and your happiness depend largely on your ability to see clearly and quickly. Don't be a victim of false pride. If you need spectacles, wear them. Don't give up shooting if you have defective vision. You can still be a champion if you have your troubles corrected properly.

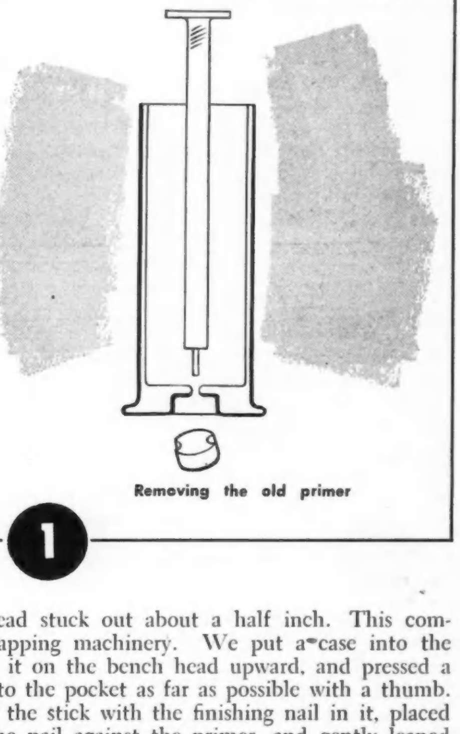
◆ ◆ ◆

Kitchen-sink HANDLOADS

IF YOU SELECT THE RIGHT CARTRIDGE, AND STICK TO LIGHT LOADS, HANDLOADING CAN BE DONE WITH FEW TOOLS—OR NONE AT ALL!

Part 1

By Jerald Teesdale



Removing the old primer

1

OUR LIVES become more complicated every day. Time was when 29 cents would pay for a little glass gimmick for juicing your morning oranges. Now you pay 30 dollars for an electric-powered outfit to do the same thing.

It's the same story with reloading tools. As the Age of Modern Inconveniences has crept upon us, we find that more and more equipment is needed to perform the duties grandpa handled with nothing but a bullet mold. Far be it from me to say that the stuff isn't good or that it is unnecessary, but it is 'way too complex and expensive for a lot of shooters.

First of all, I might as well confess that I have a whale of a lot of reloading equipment, which represents an investment of over $300, but I didn't get it all at one whack and I reload a lot of different calibers. All this notwithstanding, you can reload ammunition without any tools at all! I know, because I've done it.

Back in 1944 I located a small supply of empty .45-70 cases. My buddy went home and returned with about a jigger and a half of primers and several pounds of 300-grain .45 caliber bullets which he had cast in an old .45-60 Winchester mold. The primers were, of course, prewar leftovers and were as motley an assortment as you could hope to find. Fortunately, black powder has a profound disregard for minor variations in primers so we went to work. We filed a perfectly satisfactory decapping pin out of an old nail and got the old primers out of the cases faster than it takes to tell. To prime the cases (and we wanted to do a neat, businesslike-looking job), we first took a block of wood and drilled a hole in it which would accept the case body but not the rim. We found a large finishing nail, cut the point off so that it was about an inch and a half long, and drove it into the center of a foot-long piece of old wagon-wheel spoke so that the head stuck out about a half inch. This comprised the recapping machinery. We put a case into the first block, set it on the bench head upward, and pressed a new primer into the pocket as far as possible with a thumb. Then we took the stick with the finishing nail in it, placed the head of the nail against the primer, and gently leaned on it. It worked fine!

Black powder is accommodating stuff. We simply figured out where the base of the bullet would be when properly seated and then filled the case to about a sixteenth of an inch above that point. This old soft coal likes to be chummy with itself and should be squeezed slightly. For convenience we cut off the first case to the powder level, soldered on a handle, and used it as a dip measure.

The bullets were lubricated with automobile water pump grease (good for almost any cast bullet loads except the heaviest) smeared into the grooves by finger-power. It goes fast once you get the hang of it and stop dropping them. They were then pushed into the cases down on the powder.

If you handle your ammunition carefully, this is as far as you have to go with the operation. The loosely seated bullets shoot well. We had a two-mile hike out to the sand pit where we shot, though, so we had to crimp the bullets in. Those bullets had a flat nose so we put the lead jaws into the vise and used it to seat them to proper depth. Before taking each cartridge out of the 'press', we crimped the case mouth slightly with a pair of diagonal cutters. While not esthetically beautiful, the job was quite satisfactory. It kept the bullets where they belonged and our good-natured black powder didn't care what the crimp looked like anyway. All we had to be careful about was to get the crimps relatively uniform and not squeeze the case mouths far enough out of round that they would refuse to enter the chamber.

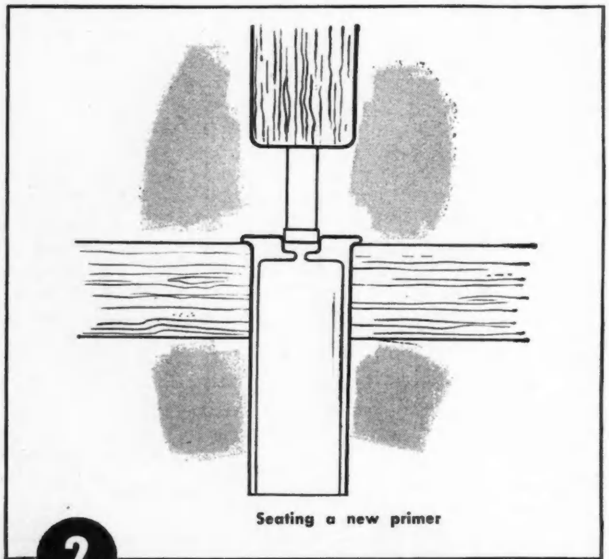
Did we size the bullets? We did not! We figured they were close enough as cast.

Before anyone yips about the fact that we used regular molded bullets, let me say that we did so only because they happened to turn up. If they hadn't, we would have used round balls. At that time we could get almost any size buckshot and were using some .457 buck in one of our muzzleloaders. If you want to try it, use a charge of powder that will permit seating the ball a bit below the case mouth. Put a card wad on top of the powder, the ball on that, then smear grease in on top of the ball and put another card wad on top of the whole mess. By this time you should still have about 1/32-inch of empty case left. Cut a sharply tapered crater in a block of metal or the hardest piece of wood you can find using a countersink or the point of a large twist drill. This is your crimper. Place the mouth of the filled case in the crater, lean heavily on it, and twist it a bit. You will find the neatest crimp in three counties. If the top wad buckles, lean less heavily on the case or cut a little bracing block to fit into the bottom of the crater and support the wad.

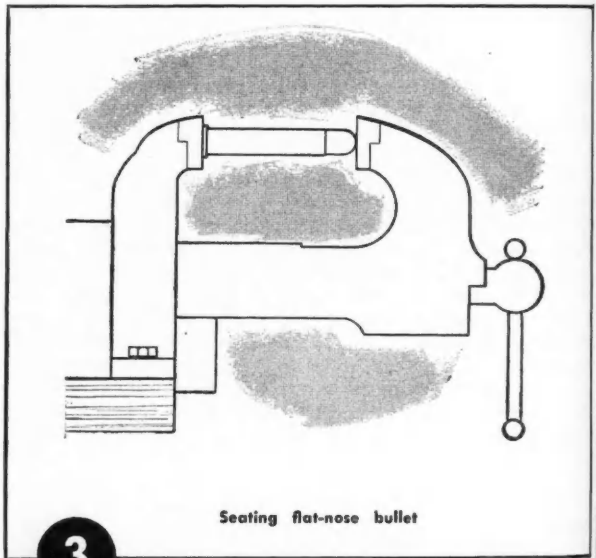
These large caliber old timers are made to order for the beginning handloader. They can be reloaded with an absolute minimum of tools and as long as black powder is used and the maximum bullet weight is not exceeded, it's almost impossible to get into trouble. The normal powder charge is all you can get into the case. Those old rifles had a margin of safety comparatively far greater than a modern rifle because the maximum charge was also the normal one and the only direction a reloader can normally go is to the light side.

Large bore rifles should be loaded with Fg (the coarsest granulation) black powder but FFg (medium grind) will work OK if you can't get the coarse. It will kick a bit harder and foul a little more, that's all. FFg is best in cartridges like the .32-40 and large revolver cartridges. FFFg (the finest) shouldn't be used in anything larger than handgun cartridges and the smallest rifle loads such as the .32-20 and .25-20. Once having the right bullet and powder, use all the powder you can get into the case and you're all set.

Eventually you will tire of the makeshift way of doing things and will want tools which will do a slightly better job with more convenience. That's fine, but keep your cash outlay as small as possible. That means something on the order of the tong (or 'nutcracker') type tool. You'll probably buy a new Ideal No. 310 tool and a mold. You'll find that it has something called a double-adjustable chamber. This has a separate screw for adjusting depth of bullet seating. You can do everything with it that you can do with the single adjustable plus a few more tricks. For one thing, in the case of cartridges other than the one the tool was made for, you have some leeway in seating the bullet and may often come closer to the correct powder charge than is possible with a single adjustable chamber. Also you can use different bullets by using another seating screw which fits the nose of the new bullet. If you have a new bullet with a nose shaped similar to the seating screw, try using the screw you have. It may work OK and a slight reshaping of the bullet nose often is not important as long as it's uniform. But you may find that a new bullet won't work at all with the old seating screw, in which case you must find or make another one. As an example, take my old .45-70 Ideal tool with attached 405-grain round-nose bullet mold and


Seating a new primer

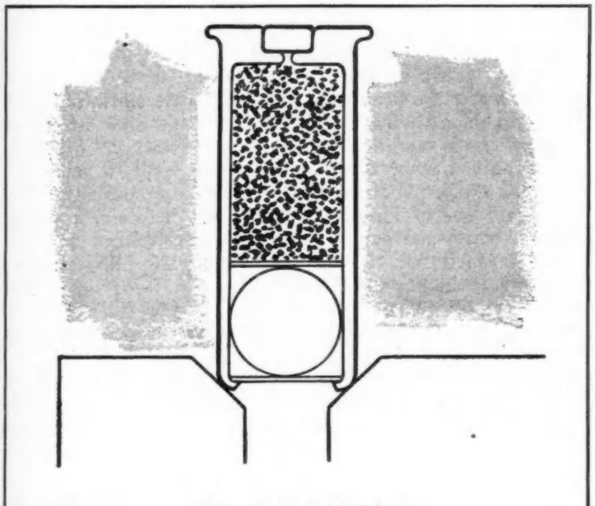
2


Seating flat-nose bullet

3

double adjustable chamber. I wanted to load some .45-70 cartridges with some of those 300-grain flat-nose Winchester bullets left over from our wartime experimenting. No matter how I set the tool I couldn't make the bullets seat. The edge of the seating screw bore on the nose of the Winchester bullets and I couldn't get it out far enough that the thing would work properly. When I tried to put a round together I folded the cartridge case at the base of the bullet and produced something known locally as Teesdale's Double-Rimmed Improvement. A new seating screw with a flat end was needed and a friend made it for me on his lathe, but in some cases it could be done simply by cutting threads with a hand die on a piece of round metal rod of the correct diameter. A flat-ended seating screw is the most useful shape there is, as it will take care of any flat-nose bullet, many round-nose types, and a few other odd designs. It doesn't work well with pointed bullets.

All of this may be Greek to you, but send for the Ideal Handbook (50 cents, Lyman Gunsight Corp., Middlefield, Conn.) and it won't be. Read it over carefully. Then read it over carefully again. That little 50-cent booklet has more good information in it than anything else I know of for the size and cost. The instructions for using a tong tool will apply to any tong tool regardless of make or model with only minor differences which will be self evident if you know what you're doing in the first place. If you can find an old copy dating back to 1930 or earlier (Handbook No. 29 or lower), you'll have an even better text for the beginner: of late years even Ideal has become more and more fascinated with the more complex and expensive outfits. Get a copy of the B & M handbook, too. (Belding & Mull, Phillipsburg, Pa., 60 cents.) These two literary gems should form the minimum library of everyone going into handloading. They explain the mechanics of making cartridges clearly (with pictures). Neither one covers exactly the same ground as the other.


Crimping round-ball load

4

Now, if you have your tool, use it for a while and get some actual experience in reloading. That will teach you more than any number of pages of blurp. The blurp gives you a sort of road map of where to go, but to get there you 'gotta get up and git fer yerself.' After using your tool for a while, preferably with black powder, you'll probably want to experiment a bit for better results of one sort or another. Accuracy, you'll find, is not some mystic god on a tin pedestal, but a rather simple matter of combination—like a combination lock. If you have the right tools for the caliber you are reloading, you're very close to the answer already and you'll be getting good ammunition, but sometimes there are a few things you can do to make improvements. If your results aren't all you think they should be, start off by checking yourself to see whether the trouble is you. Are your bullets of even diameter and weight? Are your powder charges and crimping uniform? Is the bullet diameter right for your rifle? If the answers are all 'yes', you should be getting good accuracy if there's any in the gun. Accuracy, after you have the right combination, is just a matter of making one cartridge exactly like the next. You can try increasing or decreasing the powder charge a bit if you want to, but you don't have much latitude with black powder. You might also try a different granulation of powder or a different brand. Not all brands of black are the same and some of the stuff sold during the war was not the best. Once in a while, one lubricant will work better than another, but with low velocities water-pump grease should do as well as anything. You might also try varying your bullet alloy or, if you're using scrap lead or 'any old thing that turns up', try turning up something different if you think the results will justify the effort. There's only one way to find out: try it.

A little bit about the casting of bullets might not be out of place here. If you have a tool with attached mold, or a plain tool with the mold intended for it, you have just about all you need. (If your mold is on the loading tool, wrap the metal handles with cloth when casting if you object to the smell of burning flesh.) You'll have to have a melting pot which will hold ten pounds or so of metal—about a pint and a half. You can get a good one from Ideal or from the local hardware store. The Ideal pot will cost about twice as much as one bought at the hardware or plumbing shop but it has a wider top and is a little more convenient. It also has less tendency to tip over when used on a stove that just barely supports the thing in the first place. Suit yourself in this matter. One piece of equipment you really need is a reloader's dipper. It's made with a spout which fits into the hole in the cut-off plate on top of your mold and is well worth the modest cost. I've never found any other sort of dipper that was worth bothering with. You'll find an old Ideal dipper a little better than the new ones because it has a longer shank and your hand is farther away from the hot metal. A cloth glove for the hand you hold the mold in will be a big comfort. Those cheap cotton gloves which most grocery stores sell for about 25 cents are fine. Leather gloves get stiff and aren't too good. If you get a new, short-handled dipper, you may want to wear a glove on each hand.

Your bullet alloy probably won't give much trouble. With black powder or low-velocity smokeless loads, a hardness of 1 part tin to 15 or 20 parts lead will usually do. Whip up a potful by weight or guess and try it. If it turns out too soft and gives leading, harden it with some tin or solder. If it works, the matter is settled.

Casting bullets larger than about .38 caliber will usually be simple. Smaller molds may be temperamental. I had one mold for the Ideal 115-grain No. 3118 bullet which had the nastiest temper of any inanimate object I have ever seen. It just didn't like me! If I could get 150 good bullets out of it in half a day's work, I thought I had put something over on it. I finally sold it to a friend and bought a new one. My new one works fine and the friend has had no trouble with the old one—but his girl friend casts his bullets for him so mebbe sex has something to do *(Continued on page 34)*

By Dan Dwyer

"Accurizing" the .45

The .45 service automatic pistol is a loose-jointed critter with a wartime rust-resistant finish which resembles an adobe wall. It is a rough and wild-looking creation, but every line and detail is functional. The .45's first and real purpose in life is to fill the requirements of a close-range boss. It was built to secure against malfunction while seeing hard usage in a grimy, perspiring hand. It does the job when called upon, with a gusto and finality that is unequalled. Seen in that light, the .45 is a good-looking piece of artillery.

When used for target shooting, however, the .45 does not require the mud-wall finish, and if certain critical points between the slide and the barrel do not fit tightly together, accuracy suffers. Both of these 'faults' may be overcome.

In a kitchen-table operation, the coarse Parkerized finish may be removed and the handgun refinished to a shining blue complexion that is as clear as it is smooth. By making, or having made, three small parts, accuracy of the arm can be improved and an adjustment provided for controlling tension of the recoil spring so the slide can operate with even the mildest of reduced loads.

Holding the gun with muzzle up, the slide in full-forward position, and your trigger finger over the front sight, press on the bottom of the muzzle of the barrel with your thumbnail. If your gun is equipped with a loose-fitting barrel bushing, considerable movement of the barrel muzzle in a vertical plane will be noted. With the thumb and finger of your other hand, touch the top of the slide and bottom of the receiver at directly opposite points. Repeat the experiment of moving the muzzle vertically and note that the slide moves almost imperceptibly upon the receiver. You will note that the barrel muzzle moves back to the lower position when pressure is released. It is stressed in that direction by a spring, the recoil spring.

Let's remove the slide from the weapon so that the parts may be seen and their functioning discussed. With the muzzle up, press in the recoil spring plug, the small circular piece of checked metal beneath the muzzle, and turn the barrel bushing, releasing the tension on the recoil spring. Hold a finger on the recoil spring plug while turning the bushing to prevent the spring from jumping out and hitting you. Push the slide rearward until the smaller recess in the lower left edge is positioned over the projection on the slide stop thumbpiece. By pressing in the projection on the right side of the receiver above the triggerguard, the slide stop may be removed. Now the barrel and slide may be taken off the gun, disassembled, and examined. (See drawing on opposite page.)

To get a clear understanding of the functioning of the slide, barrel, and recoil units, it is only necessary to recall that when the slide is in normal forward position and a cartridge is in the chamber, the rear portion of the slide acts as a breechblock, resting against the head of the cartridge. The locking shoulders on the top of the barrel fit snugly into grooves in the top of the slide. When the pistol is fired and the bullet starts up the barrel, pressure from the burning powder forces the head of the cartridge case rearward against the breechblock. But since the barrel and slide are locked together, both start moving rearward. However, the barrel moves only a short distance before the link, which pivots rearward on the pin attached to the slide stop, pulls the barrel downward out of locked position with the slide, and halts further barrel movement. The slide continues rearward, ejects the fired case, cocks the gun, and pushes down the disconnector, which prevents the gun from firing again until the trigger is pulled. As the slide reaches the end of its rearward travel, the recoil spring forces it forward again, chambering another round.

Figure 1 is a dimensional drawing of a recoil spring bushing with a positioning flange. This bushing is to replace the standard one. It performs the same functions as the standard and in addition takes up some of the slack between the muzzle end of the slide and the recoil spring housing extension.

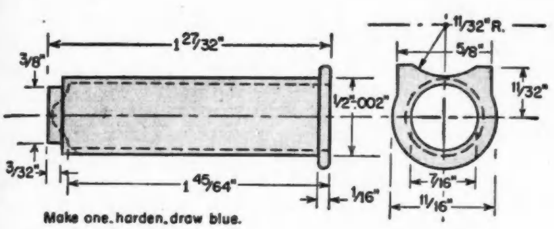
When properly installed, the need for tightening the slide is completely dispensed with. In addition, the correction is accomplished far out from the slide ways and is therefore much more effective than the closest fitting of the ways could ever make possible. Standard loads will not cause future loss of this correction.

Figure 2 is a dimensional drawing of a recoil spring guide and recoil leveler. The functions of this combined element are the same as the original guide plus the added feature of smooth slide stoppage at the end of the blow-back. This has proven of benefit in the return of the slide into battery with less change of position in the shooter's hand, especially when using standard loads.

It is not recommended that the recoil leveler be used with the standard recoil spring plug. The full force of the recoil would be borne by the barrel bushing extension in such a case. By the use of the bushing and position flange together with the recoil leveler, the absorption of recoil is borne by elements intended for this function.

One and only one modification of your gun is required

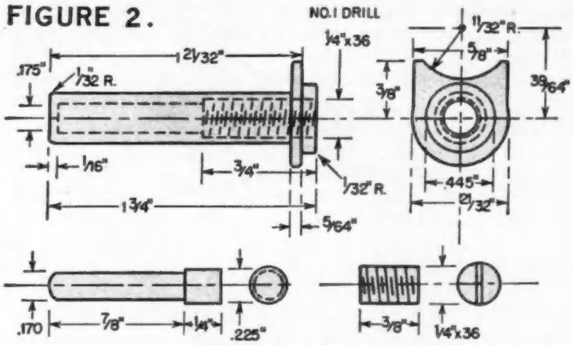
FIGURE 1.


1 27/32"
3/8"
1/2"-.002"
3/32"
1 45/64"
1/16"
11/32" R.
5/8"
11/32"
7/16"
11/16"

Make one, harden, draw blue.

By making these two parts and inserting them in the slide beneath the barrel, play between the barrel and slide may be removed and accuracy of a .45 increased.

FIGURE 2.


NO.1 DRILL
1/4"x36
1 21/32"
.175"
1/32 R.
1/16"
3/4"
1/32" R.
1 3/4"
5/64"
11/32" R.
5/8"
3/8"
39/64"
.445"
21/32"
.170
7/8"
1/4"
.225"
3/8"
1/4"x36

Make one each, harden, draw blue and one 1 1/2" Buffer Spring-number 8 (.020") Music Wire, 17 turns, 1/8" Mandrel.

to permit use of these two aids in improving your shooting. The slight shoulder in the recoil spring plug housing of the slide must be reamed to an exact internal diameter of .500 inch. This is to permit of the entry of the recoil spring bushing and flange into the rear of the housing, before the assembly of the slide to the receiver, instead of from the front as with the original recoil spring plug.

It will be required that the recoil spring and guide be installed under some tension before the slide is placed on the receiver. While this is a little more complex than the method of assembly using the standard parts, it can be done without having to move the ice box to retrieve the spring and guide.

To proceed with the work of making the .45 blue again, let's list the supplies required for refinishing. The most important of these are the abrasives for polishing. Get six or so sheets of 200-grit metal finisher's paper, another half-dozen sheets of 400-grit polishing paper, and some 600-grit paper for final work. The 600-grit is available in any store handling auto painter's supplies. The other grits are also carried in some of the same stores but are more readily found in mill supply houses. The cost averages ten cents per sheet.

Procure a 'C' clamp with four- or five-inch opening. Make two 'V' clocks of hard wood. These are illustrated in their use of holding the slide for top polishing on the next page.

Go to your local 5 & 10 cent store and get a cheap cast-iron deep fryer, one with a perforated plate inside if possible.

Your neighborhood garden supply store should have sodium nitrate. If not, go to the drugstore and get about two pounds of it. Also get about a quarter pound of sodium nitrite while there.

The grocery has lye in various forms. Try to get a brand plainly marked 'lye'. Don't accept compounds of lye containing less than 94 percent sodium hydroxide. Obtain six cans of the lye and don't open more than you need at a time—the darn stuff takes up moisture very rapidly, the addition of which is hard on the container, the lye, and your hands when you try to handle the cans.

To remove the old finish and rust spots and begin the polishing of your gun, spread newspapers over the top of the table to keep the oil and metal dust from soiling the surface. A little oil will probably get through but the paper will act as a filter, preventing the dust in solution from getting through.

In disassembling your .45-auto, remember that the magazine catch lock is not a screw. It is removable on old-style models by pressing in the checkered button on the left side and rotating the projecting right end counterclockwise one-half turn. On the new style, it looks like a screw at the right end and requires only a quarter turn counterclockwise.

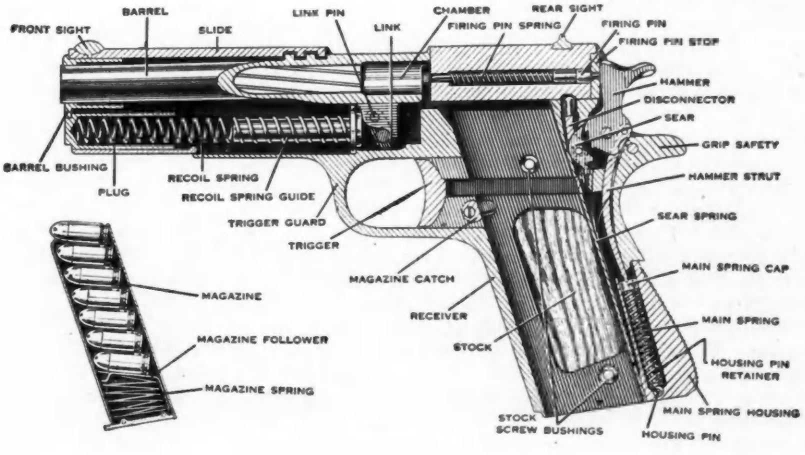
The trigger is now removable rearward from the receiver. The pins, with the exception of the mainspring cap pin, the lanyard loop pin, and the ejector pin, are all removable by pushing out. Those named must be driven out with proper-size drifts.

The slide stop plunger, the safety lock plunger, and the

A RIFLEMAN
"How to do it"

A NEW FINISH AND A FEW PARTS WILL DRESS UP YOUR .45 AND IMPROVE YOUR SCORES

Courtesy Colt Manufacturing Co.


FRONT SIGHT
BARREL
SLIDE
LINK PIN
LINK
CHAMBER
REAR SIGHT
FIRING PIN SPRING
FIRING PIN
FIRING PIN STOP
HAMMER
DISCONNECTOR
SEAR
GRIP SAFETY
HAMMER STRUT
SEAR SPRING
MAIN SPRING CAP
MAIN SPRING
HOUSING PIN RETAINER
MAIN SPRING HOUSING
HOUSING PIN
STOCK SCREW BUSHINGS
STOCK
RECEIVER
MAGAZINE CATCH
TRIGGER
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RECOIL SPRING GUIDE
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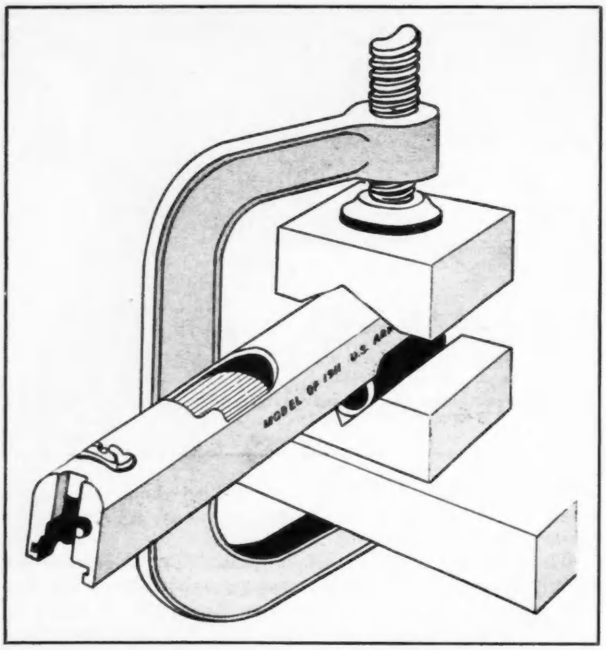
PLUG
BARREL BUSHING
MAGAZINE
MAGAZINE FOLLOWER
MAGAZINE SPRING



A C-clamp and two V-grooved blocks of wood will hold the slide upright so that the top surface may be polished with strips of abrasive cloth

plunger spring may be pushed to the rear from the housing. The housing is removable by the careful use of a board-angle pointed drift. You will be required to work with the drift in the same plane as the movement of the studs. Work slowly, moving each stud a little at a time. Observe the thinness of the receiver wall and be governed accordingly. Solid backing below the housing is required.

The grip screw bosses are screw bushings which may be removed by the careful use of a broad, thin blade screwdriver of good temper.

With the gun now completely stripped, choose those parts to be cleaned and polished. Place the balance in a box and put them aside in a safe place.

It will be simpler to name those parts not subject to cleaning and polishing. They are the sear, sear spring, disconnector, firing pin, extractor, firing pin spring, hammer spring with end caps, ejector and pin, hammer strut and pin, grip screw bosses, mainspring cap pin, magazine catch spring, recoil spring guide, barrel link and pin, safety plunger, slide stop plunger, and plunger spring.

Place a sheet of 200-grit metal finisher's paper over newspaper on the flat surface of the table or bench. Apply about a half teaspoon of thin machine oil or cutting oil evenly over the abrasive and then place either flat side of the slide upon the abrasive. Move the slide lengthwise upon the abrasive in short strokes and vary its position on the sheet as you work.

Occasionally readjust your point of pressure so as to evenly distribute the cutting. Grind both sides of the slide, stopping when the whole of the old finish has been removed.

Each grain of abrasive is a cutting tool and very sharp. The chip that it cuts will be short in corresponding length to the stroke that you make. While this is not strictly true, it is correct for the purposes of the job at hand. Two effects will be noticed in the practice of this technique with coarse abrasives. The cutting lines will be short and close and the abrasive paper will last longer and foul more slowly. The first effect is desirable in the final finish. The efficacy of the second need not be extolled.

Cutting will take place very rapidly at the start with each new sheet. You will need to guard against the removal of shallow stamped characters upon the surface. If your gun is a Colt, use the rampant Colt as your gauge. If a government model, be especially careful not to obliterate the serial number. In some guns this was not imprinted very deeply. Be careful, too, that you do not remove the government property mark.

The illustration shows the use of the 'V' blocks in grinding the round top of the slide with strips of abrasive in a shoe-shining manner. Short firm strokes will give an excellent finish in addition to causing less breakage of the strips.

Don't override the surface breaking lines. Maintain them sharp and clear. Appearance will be improved if you keep straight lines straight, curved lines curved, and keep them where and as you found them.

Continue the use of the abrasive paper to the points around the sights, if you do not remove them (you don't have to). Under the muzzle, in the contours of the recoil spring housing, careful work will be required with abrasive paper and the fingertips.

With all of the irregular surfaces done thoroughly, return to the strip polishing on the rounded surfaces with well-worn strips. Don't work too hard at trying to blend the direction of cut around the sights. This is not objectionable. You will find evidence of just this characteristic on even the best of guns, especially around the front sight blade of revolvers.

Return to the flat polishing as the last operation of the rougher grinding. When finished to your satisfaction with the use of the abrasive paper, a repeat performance is done next using the 400-grit polishing paper and then the 600-grit in exactly the same routine, but with less oil. Do it dry to impart a high polish. Use a very light oil for a satin smooth finish.

Throughout the polishing it would be well to have an old pair of skivvies to use as an oil wiping rag. Without them or something in lieu thereof it will be rather difficult to observe your progress. A pair of old gloves of any kind will not be amiss. They will prevent you making too much contact with the abrasives and your hands will stay cleaner.

Look over the slide carefully. Have you left any spots of old finish? Did you make any deep scratches which the final polishing failed to remove? If done to your satisfaction, coat it with motor oil, wrap it in paper (waxed preferably), and lay it aside.

The frame or receiver is next. Proceed in the same manner as with the slide, the protuberances having been removed. A word of caution. The recoil spring housing extension is rather thin. Don't make it much thinner. Don't remove any more metal than required to break through the old finish at the guide ways or slide grooves. Do maintain the definite line between the flat sides and the rounded foregrip. While the grip stocks will all but obscure this line, it is from such that quality of workmanship is judged.

Polish well into the corners at the triggerguard and inside the guard. Use a folded small piece of abrasive paper in order to bring pressure beyond the limit of your round fingertip. Your fingernails are effective in this work, but they don't last very long.

Polish for bluing only those small parts which extend to the outside of the arm. They are: the hammer, the trigger, the safety lever and hammer pin, the slide stop lever and link pin, the magazine catch and retainer, the bottom plate of the magazine, and the safety grip. Don't polish the magazine body; it is made from very thin stock.

The parts are not ready to be blued until you honestly feel that further improvement would be very difficult to achieve.

The attractiveness of the appearance of a gun of this type is the result of careful preparation of the parts prior to bluing.

Take a good look at a new gun. Upon close inspection you will find that a grain is in evidence; it runs lengthwise of the slide. This is the result of a type of flat grinding. Perfectly flat, that is. Notice that the surface breaking lines are clear and sharp.

If you desire the matted finish found on the new guns, it can be obtained quite simply. Just mask the portions of the gun that you wish to remain bright with automobile painter's masking tape. Either have light sand blasting done on the exposed surfaces or use automobile valve grinding compound and a lapping stick. The lapping stick should be of metal similar in texture and hardness to that from which the gun is constructed. The idea is to cause the abrasive grain to roll between the surface of the gun and the lapping stick, but not to lap. This produces a fine matte surface, much finer in grain than obtainable by ordinary sand blasting.

When it looks like you are ready to blue remove the label from the bottom of your new deep fryer and measure its capacity to the nearest cupful of water and divide that by four. Multiply your answer by three and you have your starting volume of solution.

Make up your bath from three parts lye, one and one half parts sodium nitrate, one-quarter part sodium nitrite and five parts water. All measurements of the ingredients should be made by volume or cupfulls.

Make a small basket of window screen, not copper or aluminum, in which to immerse your small parts. Make hooks to suspend your major parts just under the level of the surface of the solution.

After making sure everything is free of grease and oil, bring the bath to a slow boil and immerse the parts so as to not have contact between them or with the sides of the fryer.

Full, deep coloring should be attained in about fifteen minutes. If not, remove the parts from the bath, placing them in a bucket of water. Then add lye and sodium nitrate in the ratio of three to one and a half, about a cupful, and allow the solution to come to a boil again before simmering the parts to be blued.

When deeply colored, rinse the parts well, dry and oil them. They are ready for reassembly.

It is well to keep in mind that you are working with a dangerous solution, a highly caustic one. The danger lies in carelessness. Don't add water in any but a small stream or ice cubes. A large amount of water dumped into the solution will cause it to spatter like hot lead, and it is just that hot, right in the neighborhood of 300 degrees F. The safest method of adding water is while the solution is near 212 degrees F.

Please report changes of address direct to the National Rifle Association, allowing five weeks before change is to take effect. Be sure to send your old address, preferably an address label from the RIFLEMAN, together with new address. Make sure of getting your RIFLEMAN promptly each month by notifying the NRA direct, in advance of change. Send new address to the National Rifle Association, 1600 Rhode Island Avenue, Washington 6, D. C.

ALL ABOARD!

here's a vacation plan you don't want to miss

All travel expenses included in a single fee—train fare, hotel rooms at stopovers, sightseeing trips and guide fees

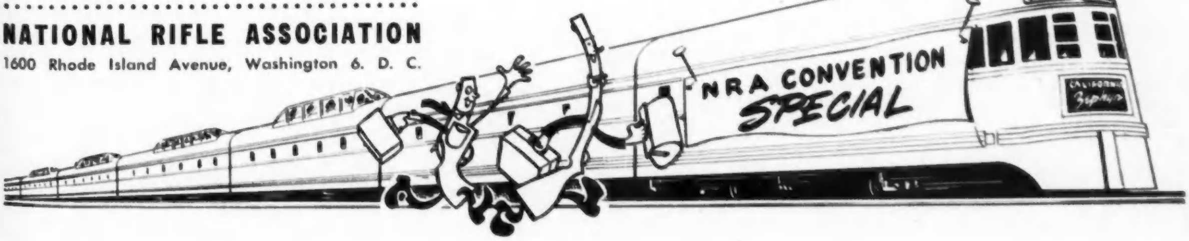
Sept. 29 . . . Leave Chicago on the famed Vista Dome California Zephyr
Oct. 1 . . . Arrive San Francisco

4 GRAND DAYS AT YOUR NRA CONVENTION
Planning for the future — Viewing the newest equipment — Having fun with the best of friends.

Oct. 7 . . . Leave San Francisco — Arrive in Los Angeles
(Two nights and a day stopover — Plenty of time for sightseeing in the City of the Angels and Hollywood)
Oct. 10 . . . Arrive at Grand Canyon. (Day stopover—two sightseeing trips)
Oct. 11 . . . Enroute through New Mexico and Texas
Oct. 12 . . . Arrive at Kansas City
Oct. 12 . . . Arrive at Chicago—Home again.

Write now for full Convention details, advance reservations and illustrated circular about the special train to Convention Secretary

NATIONAL RIFLE ASSOCIATION
1600 Rhode Island Avenue, Washington 6, D. C.



Kitchen-sink Handloads

Continued from page 29

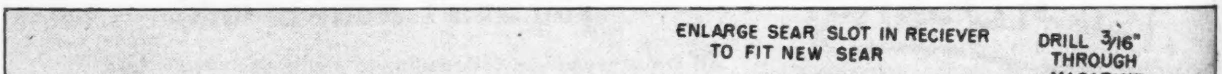
with it. Another mold I have does better work if I cast left-handed. It isn't very convenient but I humor it and get good bullets. These stories about slamming the front door two or three times to make the Mixmaster work aren't silly when you're dealing with bullet molds. You never know what it takes to make them behave until you try a few things. Some are even sensitive to the stuff you use to flux the bullet metal. One of mine will work fine if I use paraffin for flux but goes on strike if I use the beeswax that none of my others object to. So if you have a mold that doesn't work right, piddle around with it a bit before you throw it in the creek. Nothing it too silly to try.

As for lubricating them, my old standby, water-pump grease, is good stuff when daubed on by finger. With a little practice you can do the job neatly and fast and never get grease on the bases. If you want to dip them in melted lubricant and then cut off the excess with an empty, deheaded cartridge case, you'll have to use something different because water-pump grease won't melt. You can heat it up to a high temperature and it catches fire before melting. At ordinary temperatures it remains just about right and will not sweat out oil into the powder in any climate. If you want to whip up something that looks gooeyer, try the formula suggested by Major Ellis Lea in the October, 1947, RIFLEMAN, viz.: one pound carnauba wax, three pounds beeswax, three pounds tallow, and anywhere from a quarter pound to a full pound of colloidal graphite. This is really good stuff and will cure almost any leading problem if you go up to a full pound of graphite. Eight pounds of the stuff is an awful batch, though, and unless you plan on supplying the local police department you'd be better off measuring it out by ounces instead of pounds. Eight ounces will last the average reloader months if not years.

As for sizing the bullets, you may not need to. A lot of the old molds cast bullets just about the proper size and if your mold throws them about right and not too far out of round, forget about sizing—at least until you've tried shooting them as cast. If you must size them, take a look at your tool and see whether there isn't a sizing hole in the lower handle. All the old Ideal tools had them. If yours has, make use of it. These holes were designed to take the bullet nose first and the maker provided a punch which rests on the base of the bullet and pushes it through when you close the handles. However, bullets should be sized base first or not at all. Instead of doing things as the maker intended, cut yourself a piece of wood with a hole in it approximately fitting the nose of the bullet, clamp the tool in a vise, and push the bullets through base first. Catch them as they come out or you'll wish you had. If you can push the bullets through with your fingers, forget about sizing them.—*To be concluded.*

HANDLOADING SERIES: *The Rifleman's series of loads for favorite cartridges has been discontinued during the summer months. It will be resumed in the September issue. Loads scheduled for discussion include the .44-40, 6.5 Mannlicher-Schoenauer, .218 Bee, .300 Magnum, and others.*

Here are the details of Fred Berman's Springfield trigger (page 19)


DRILL 1/8"
9/64"R
3/32"
5/32
11/32
1/4
DRILL 1/16"
3/16 R
DRILL & TAP 8-32
20°
HOUSING
1/8
7/16
9/16
11/16
1/2
5/64"
11/32"
3/16
5/64"
℄
20°
19/32
1/8R
DRILL 1/8"
TRIGGER BAR
(3/16" THICK, TOOL STEEL, HARDENED)
1/16"
3/16"
℄
R=1/8"
1/16"
1/4
1/4
3/32
DRILL 1/8"
7/16
5/16
1/4
1/32
3/16
SEAR
(TOOL STEEL HARDENED)
ENLARGE SEAR SLOT IN RECIEVER TO FIT NEW SEAR
DRILL 3/16" THROUGH MAGAZINE
OTHER PARTS
1- 1/16" ø PIN, 11/32" LG,
2- 1/8" ø PINS, 11/32" LG, OF COLD ROLLED OR DRILL ROD.
2-SPRINGS, OF #9 (.022") PIANO WIRE; WOUND ON 3/32" MANDREL
1- 8-32 x 3/4" HEADLESS SET SCREW.

THE SPOTTING SCOPE -- July 1950

Harry Linn, NRA Vice-president and chairman of the Association's by-laws committee, met with his committeemen in Washington on June 17-18 for a final study of proposed amendments to the by-laws. Designed to give a larger percentage of the association's membership a voice in the affairs of the NRA, they will be submitted for adoption by the Board of Directors at San Francisco this fall. . . . The nominating committee, under Alvin Badeaux, met on July 7th to weigh the qualifications of the hundreds of people recommended by NRA members throughout the country for election to the Board of Directors. The committee's selections will be published in the August Rifleman. . . . Two charming ladies, Mildred Hainsworth and Edith Chase, were honored with NRA life memberships at the association's annual headquarters picnic. Mildred is C. B. Lister's efficient girl Friday . . . and Edith heads the NRA's accounting office. . . . Lovely Audrey Bockman, national junior rifle champion a few years back, is now recommending a popular brand cigarette to all target shooters via a colored comic-strip advertisement.

The NRA Tournament News, launched last month, is assured a successful career. Editor Russell Warye, with the help of tournament reporters all over the country, put out an initial eight-page issue that was packed with tournament results and interesting shooting news. . . . The United States Revolver Association is now publishing a monthly magazine "The Hand-Gunner". The first issue was off the presses last May. Stanley Wolff, P.O. Drawer 67, Brewster, N. Y., is the editor. . . . If you answer any ads in the Rifleman make sure you have the correct address. Time was when you could misdirect a letter and the post office would unscramble the address for you and deliver it. That is no longer true. With the economy wave, directory service has been suspended. Rifleman advertisers report letters and orders are failing to reach them because of careless addressing. . . . Well-known military arms expert Roger Marsh is now conducting a weekly smallarms and ammunition column in the Sunday Cleveland Plain Dealer. . . . The recreation department of Waukesha, Wisconsin, recently purchased several new rifles with city funds and turned them over to a junior rifle club. Lack of equipment had been an obstacle to the 73 young shooters since the club was organized.

Long-standing records fell at the 1950 matches of the Bench Rest Shooters' Association, staged at Du Bois, Pennsylvania. Jack Snyder, Martinsburg, West Virginia, topped the famed 13/16-inch ten shot 200-yard group made years ago by Doctor Rowland. Snyder's ten shots went into .717 inch at the same distance. Snyder's rifle, incidentally, was the same Gregoire-barreled, Taylor-built .219 Donaldson that holds the 100-yard record (five shots in .056 inch). Also broken: the 300-meter record. New holder is Sam Clark, Jr., Waterville, Maine. His .656-inch group was made with a Douglas-barreled .250 Donaldson Ace.

George Livermore, grand old man of the U. S. gun industry and Chairman of the Board of the Ithaca Gun Company, died last month at the age of 104. . . . Henry Krug, head of the Abercrombie and Fitch Company gun department, has retired after 53 years of service. . . . Frank Daniel and John Rose of the NRA public relations division represented the association at the Outdoor Writers Convention in Maine last month. They gained more ground for the NRA's national uniform hunting accident report campaign. . . . Robert McMains of Dallas, Texas, present national smallbore rifle champion, preparing for the defense of his title at San Francisco, failed to win his state crown while firing in the Texas State Championships. . . . Joan McCormack of Upper Darby, Penna., besides being one of the best junior girl shooters in the country (she ranks in the first ten), is a violinist of great promise. . . . Air Force Staff Sergeant Glen Van Buren, the 1948 and 1949 National All-Gauge Skeet Champion, has not been defeated in any tournament in the last two years. Quite a feat when you consider that Glen did not take up skeet until March, 1947. . . . The British pistol team will fire their share of the International Pistol Match on the 10th of this month. The American team will shoot their scores during the National Pistol Championships in September. No word has been heard from Canada on their date. . . . Two girl scout troops in Oklahoma claim they are the only such units in the United States that have smallbore target shooting as part of their program. They are located in Tulsa and Vinita. . . . Don't forget the 3rd Annual Convention is in San Francisco, Oct. 2-6.

Paul Cardinal

Recapitulation Of All Information Published On National Championships

The 1950 National Smallbore Championships and the National Pistol Championships arrangements were announced in the February AMERICAN RIFLEMAN this year and since then each issue has carried later developments as they were completed. Programs for both Nationals are being given all competitors at each 1950 Regional together with an entry card. The entry card is important—as soon as a shooter completes his personal plans to fire in the nationals he should complete the card and put it in the mail.

Arrangements are going ahead for the National High Power Rifle Championships. No official word has been received on whether firing of the National Trophy Individual Match will be authorized by the Department of the Army but the Association is working for the authorization and hopes to have the good news before long.

For those who missed the information in The RIFLEMAN here in brief is what has been published up to now.

SMALLBORE CHAMPIONSHIPS

Location:	Sharp Park Municipal Range, San Francisco, California.
Dates:	Sharpshooter and Marksman Championships, September 27 and 28. Open Championship (open to Masters and Experts, plus high 10% in the Sharpshooters and Marksman Championships), September 29 and 30.
Conducting Organization:	The Nationals are being conducted by the combined California State Rifle and Pistol Association and the San Francisco Rifle Association.
Eligibility:	All Regional aggregate competitors may enter the Nationals by completing the Entry Card given them with the National Championship program. A competitor's classification on the date his Championship is fired will determine whether he is eligible for the Sharpshooter Marksman or Open Championship.
Entry Closing Date:	All entries should be made as soon as possible. Closing date for entries is September 4.
Entry Acknowledgment:	Entries will be accepted up to full capacity of the range (250 Sharpshooters and Marksman and 250 in the Open). All entries will be acknowledged by mail as early as possible.
Post Entries:	If less than 250 competitors enter in either section Post Entries will be accepted from Regional Championship competitors in the order they are received at the Tournament Statistical Office.

PISTOL CHAMPIONSHIPS

Location:	San Francisco, California, Police Pistol Club.
Dates:	Sharpshooter and Marksman Championships, September 23, 24, 25. Open Championship (Masters and Experts, plus high 10% in the Sharpshooter and Marksman Championships), September 27, 28, 29. National Trophy Matches (if authorized), September 26. Team Championships (not classified), September 30.
Eligibility:	All Regional aggregate competitors may enter the Nationals by completing the Entry Card given them with the National Championship program. A competitor's classification on the date his Championship is fired will determine whether he is eligible for the Sharpshooter, Marksman or Open Championship.
Entry Closing Date:	All entries should be made as soon as possible. Closing date for entries is September 4.
Entry Acknowledgment:	Entries will be accepted up to full capacity of the range (280 Sharpshooters and Marksman and 280 in the Open). All entries will be acknowledged by mail as early as possible.
Post Entries:	If less than 280 competitors enter in either section Post Entries will be accepted from Regional Championship competitors in the order they are received at the Tournament Statistical Office.

HIGH POWER CHAMPIONSHIPS

Location:	Camp Roberts, California.
Dates:	NRA Championships, September 20 to 24, inc. National Trophy Individual (if authorized) September 25.
Conducting Organization:	Both the range and operating personnel have been made available through the cooperation of the Sixth Army.
Entries:	Do not make entry until the official program is available which will be about July 15. When ready programs will be announced in THE RIFLEMAN and in TOURNAMENT NEWS. Entries will be accepted up to full capacity of the range which is 525 competitors.
Housing:	Quarters for competitors will be available at Camp Roberts for a nominal charge.
Squaw Camp:	No Squaw Camp will be operated.
Mess:	A Competitors Mess will be operated.
Arms for Issue:	The Department of the Army will issue a limited number of M1 rifles at Camp Roberts. Competitors may also use the M1 rifles which have been issued to NRA Affiliated Clubs by the Director of Civilian Marksmanship.
Ammunition:	"Any" ammunition may be used in NRA matches. Service ammunition will be issued competitors who wish to use it.
Targets:	The NRA type targets will be used at 200 and 300 yards, Military type targets at 600 and 1000 yards. In the Free Rifle Match the International 300 meter target will be used at 300 yards.
Firing Schedule:	See June AMERICAN RIFLEMAN, Page 52.

SUMMER CAMP MATCHES

Summer Camps in every section of the country are now making entries in the popular annual summer camp matches. The competitors shoot in individual and team matches for boys and girls. The competitors are divided into age groups. Senior boys and girls are from 14 to 19 and junior boys and girls under 14.

Serial numbered targets are mailed to camps from the NRA in Washington. They are fired in each camp and returned to the NRA for scoring and ranking. Bulletins of standings are then published and awards issued.

Last year 420 individuals and 210 teams fired in the matches entered from the 700 Summer Camps affiliated with the NRA.

HIGH POWER RULE CHANGE

Clarification High Power Rifle Rules—The fourth sentence of rule 5-2, page 16 of the new high power rifle rule book should be changed to read "His decision will be final in scoring of challenged targets except when scoring is done in the pit and at National Championships.

COMING EVENTS

Tournaments and other important events listed below include all National, Regional and State Championships that have been registered with the NRA as of January 1, 1950. The current Rifle and Pistol Registered Tournament Schedule (available on request) lists all registered tournaments that were reported to NRA Headquarters by March 15, 1950. Tournaments other than championships are not listed in this column after the publication of the seasonal schedule.

Tournaments requiring advance entries are indicated by (Adv.). Tournaments limiting the number of entries that can be accepted are indicated by (Ltd.).

OCTOBER

2-6, 1950—Third Annual NRA Convention at San Francisco, California.

NATIONAL CHAMPIONSHIPS

Sept. 27-30, 1950—Smallbore Rifle at San Francisco, California. Programs available later from N.R.A. Office.

Sept. 23-29, 1950—Pistol and Revolver at Police Department Range, San Francisco, California. Programs available later from N.R.A. Office.

Sept. 20-25, 1950—High Power at Camp Roberts, California. Programs available later from N.R.A. Office.

SMALLBORE REGIONAL CHAMPIONSHIPS

JULY

1-2—South Pacific States at Santa Barbara, California. H. Griffiths, 927 W. Valerio Street, Santa Barbara, California (Adv.-Ltd.).

8-9—Northeastern at Middlefield, Connecticut. Mr. J. Russell Lent, Connecticut State Rifle and Revolver Association, Middlefield, Connecticut (Adv.-Ltd.).

8-9—Northwestern at Anaconda, Montana. Mr. Fred J. Mesenko, 700 Oak Street, Anaconda, Montana (Adv.-Ltd.).

AUGUST

5-6—Middle Atlantic States at Altoona, Pennsylvania. Mr. R. B. Barry, Altoona Rifle and Pistol Club, Altoona, Pennsylvania (Adv.-Ltd.)

5-6—North Central at Bristol, Indiana. Mrs. Garnette R. Horner, 1115 North Huey Street, South Bend 28, Indiana (Adv.-Ltd.).

12-13—Southeastern at Savannah, Georgia. Mr. Gerald L. Storey, 2013 Reynolds Street, Savannah, Georgia (Adv.-Ltd.).

19-20—North Pacific States at Wenatchee, Washington. Mr. C. L. Wood, North Central Washington Rifle and Pistol Club, Wenatchee, Washington (Adv.-Ltd.).

PISTOL REGIONAL CHAMPIONSHIPS

* Note change of dates.

JULY

1-2—Rocky Mountain at Denver, Colorado. Mr. R. T. McCluskey, 1643 Broadway, Denver, Colorado (Adv.-Ltd.).

2-3-4—Southwestern at Shreveport, Louisiana. Mr. W. C. Alston, 736 College Avenue, Shreveport, Louisiana (Adv.-Ltd.).

***15-16**—Northeastern at Albany, New York. Mr. Gilbert W. Welsh, 1291 Garner Avenue, Schenectady, New York (Adv.-Ltd.).

AUGUST

5-6—Midwestern at Des Moines, Iowa. Mr. Howard O. Smith, P. O. Box 1395, Des Moines, Iowa (Adv.-Ltd.).

5-6—Northwestern at Anaconda, Montana. Mr. Fred Mesenko, 700 Oak Street, Anaconda, Montana (Adv.-Ltd.).

25-26-27—Southeastern at Jacksonville, Florida. Mr. C. A. Brown, Jacksonville Police Department, Jacksonville, Florida (Adv.-Ltd.).

26-27—North Central at Flint, Michigan. Mr. Kenneth Gilman, 1330 Begole Street, Flint, Michigan (Adv.-Ltd.).

SEPTEMBER

2-3-4—North Pacific at Raymond, Washington. Mr. Malcolm B. Edwards, P. O. Box 252, South Bend, Washington (Adv.-Ltd.).

STATE CHAMPIONSHIP TOURNAMENTS AND OTHER REGISTERED TOURNAMENTS

JULY

8-9 INDIANA—Indiana State Pistol Tournament at Bristol, Indiana. Mrs. Garnette R. Horner, 1115 North Huey Street, South Bend, Indiana.

16 VERMONT—Vermont State Big Bore Rifle Championship at Northfield, Vermont. P. H. Teachout, East Burke, Vermont.

15-16 UTAH—Utah State .30 Caliber Rifle Championship at Fort Douglas, Utah. Ralph K. Walker, 161 Goltz Avenue, Salt Lake City, Utah.

15-16 NORTH CAROLINA—North Carolina State Pistol Championship at Asheville, North Carolina. D. E. Ray, Care Fred M. Molt, Box 7466, Asheville, North Carolina.

23 WISCONSIN—Wisconsin State Smallbore Rifle Championship. Dexter Rhodes, 3828 Sheridan Ave., Milwaukee, 9, Wisconsin.

23 CONNECTICUT—Connecticut State Big Bore Championship at East Wallingford, Connecticut. Mr. J. Russell Lent, Middlefield, Conn.

23 COLORADO—Colorado State Pistol Tournament at Denver, Colorado. Mr. Oscar R. Mains, P. O. Box 111, Denver, Colorado.

21-23 NEW JERSEY—12th Annual New Jersey State Pistol and Revolver Championship at Hightstown, New Jersey. Mr. Frank Svec, Box 42, Leonia, New Jersey.

22-23 MICHIGAN—41st Annual Michigan State .30 Caliber Tournament at Detroit, Michigan. Mr. Walter C. Franks, 432 East Lafayette Avenue, Detroit 26, Michigan.

22-23 MONTANA—Montana State Pistol Tournament at Great Falls, Montana. Dr. Robert E. Englert, 1405 4th Avenue North, Great Falls, Montana.

29-30 COLORADO—Colorado State Championship Small Bore Tournament at Fort Collins, Colorado. Mr. H. W. Stagelman, 525 City Park Avenue, Fort Collins, Colorado.

29-30 MICHIGAN—Michigan State Pistol Tournament at Milford, Michigan. Mr. Walter Lamoria, 135 Kassine Drive, Brighton, Michigan.

AUGUST

5-6 OKLAHOMA—Oklahoma State Pistol Championship at Tulsa, Oklahoma. Mr. Otis L. Loomis, 1420 South Erie, Tulsa, Oklahoma.

5-6 WYOMING—Wyoming State Small Bore Rifle Championship at Casper, Wyoming. Mr. C. W. Beasley, 1137 West 14th, Casper, Wyoming.

12-13 NEBRASKA—Nebraska State Pistol Tournament at Lincoln, Nebraska. Mr. Harold H. Buis, 1312 North 35th Street, Omaha, Nebraska.

20 ILLINOIS—Illinois State Pistol Tournament at Deerfield, Illinois. Mr. Joe L. Bennett, 1884 Orchard Street, Desplaines, Illinois.

20 MINNESOTA—Minnesota State Outdoor Pistol Championship at Virginia, Minnesota. Mr. Laurence R. Cundy, 701 10th Street N., Virginia, Minnesota.

19-20 NEW YORK—New York State Small Bore Rifle Championship at Hicksville, L. I., New York. Mr. V. B. Cleaver, Box 356, Hicksville, Long Island, New York.

20 MONTANA—Montana State .30 Caliber Tournament at Helena, Montana. Mr. George Gilbertson, 1042 Taylor Street, Missoula, Montana.

20 WISCONSIN — Wisconsin State Highpower Rifle Championships at Racine. Dexter L. Rhodes, 3828 Sheridan Ave., Milwaukee 9, Wisconsin.

26-27 NEW MEXICO—New Mexico State Small Bore Championship at Cimarron, New Mexico. Roy E. Triplett, Cimarron Rifle and Pistol Club, Cimarron, New Mexico.

26-27 OREGON—Oregon State High Power Rifle Championship at Portland, Oregon. Mr. R. L. Kirk, 3816 S. E. 33rd Avenue, Portland, Oregon.

26-28 OHIO—Ohio State Individual and Team .30 Caliber Tournament at Camp Perry, Ohio. Mr. Ray T. Bayless, 7301 Euclid Avenue, Cleveland 3, Ohio.

26-27 ARKANSAS — 8th Annual Arkansas State Big Bore Tournament at Little Rock, Arkansas. Gerland P. Patten, 521 Pyramid Building, Little Rock; Arkansas.

Aug. 29-Sept. 1-4 OHIO—Ohio State Camp Perry Outdoor Rifle Tournament at Camp Perry, Ohio. John R. Lang, 3498 Meadow Avenue, Cincinnati, Ohio.

SEPTEMBER

3-4 MONTANA—Montana State Small Bore Rifle Tournament at Lewistown, Montana. E. S. Shoemaker, 2010 8th Avenue North, Great Falls, Mont.

3 KANSAS—Kansas State Small Bore Rifle Tournament at Topeka, Kansas. Archie I. Marshall, 1324 North Monroe, Topeka, Kansas.

3-4 WYOMING—Wyoming State .30 Caliber Rifle Matches at Worland, Wyoming. Mr. Clyde B. Crowe, 1001 Pulliam Avenue, Worland, Wyoming.

2-3 LOUISIANA—Louisiana State Small Bore Rifle Tournament at Lake Charles, Louisiana. Peggy Bumpers, P. O. Box 1426, Lake Charles, Louisiana.

9-10 NEBRASKA — Nebraska State Small Bore Tournament at Grand Island, Nebraska. Harold H. Buis, 1312 North 35th Street, Omaha, Nebraska.

10 INDIANA—Indiana State Outdoor Rifle Championship at Anderson, Indiana. Avery Pitts, 813 Lindberg Street, Anderson, Indiana.

9-10 WEST VIRGINIA—13th Annual Mountain State Pistol Tournament at Parkersburg, West Virginia. R. A. Simpson, 212 West 10th Street, Parkersburg, West Virginia.

17 IOWA—Iowa State .30 Caliber Championship at Wilton Junction, Iowa. Ruth Maurer, Wilton Junction, Iowa.

16-17 MISSOURI — Missouri State Small Bore Rifle Tournament at Warrensburg, Missouri. R. H. Dorian, 4020 Blue Ridge Blvd., Kansas City, Missouri.

16-17 OKLAHOMA — Oklahoma State Big Bore Championship at Claremore, Oklahoma. E. M. Fuller, Box 832, Stillwater, Oklahoma.

16-17 LOUISIANA — Louisiana State Pistol Matches at Shreveport, La. J. H. Flournoy, P. O. Box 1098, Shreveport, La.

CHANGE OF DATES AND CANCELLATIONS

Make these changes in your copy of the 1950 Outdoor Registered Tournament Schedule:

June 18 WASHINGTON—Mid-Season Rifle Tournament at Anacortes, Washington. Warren E. Scribner, 1705 6th Street, Anacortes, Washington. (Cancelled.)

June 17-18 MASSACHUSETTS — Massachusetts State Small Bore Rifle Championship at Shelburne Falls, Massachusetts. C. R. Van Tassel, 30 Dellwood Road, Worcester 2, Massachusetts. (Cancelled.).

July 3-4 PENNSYLVANIA—Central Pennsylvania Annual Small Bore Rifle Tournament at Harrisburg, Pennsylvania. Charles W. Senseman, 425 South 13th Street, Harrisburg, Pennsylvania. (Note: Old date scheduled for August 12-13.)

July 16 WISCONSIN—4th Annual Small Bore Rifle Tournament at La Crosse, Wisconsin. A. D. Danial, 424 Cass Street, La Crosse, Wisconsin. (Note: Old date scheduled for July 23.)

July 23 VERMONT—Prosper 3rd Annual Small Bore Rifle Tournament at Woodstock, Vermont. Carl S. Lewis, RFD No. 1, Woodstock, Vermont. (Note: Old date scheduled for July 30.)

July 23 INDIANA—Jasper Small Bore Rifle Tournament at Jasper, Indiana. Harold G. Jerger, 170 Kentucky Road, Jasper, Indiana. (Note: Old date scheduled for June 18.)

August 6 NEW MEXICO—Security Service Pistol Tournament at Los Alamos, New Mexico. Sgt. George E. Irwin, 2426-B 35th Street, Los Alamos, New Mexico. (Note: Old date scheduled for May 7.)

September 2-3 TEXAS—South Texas Pistol Tournament at Houston, Texas. Frank Ratcliffe, 1319 West Pierce, Houston 6, Texas. (Note: Old date scheduled for June 3-4.)

September 16-17 MARYLAND — Patapsco Small Bore Rifle Championship at Baltimore, Maryland. Mr. Donald Melvin, 606 Wyanoke Ave., Baltimore, Maryland. (Note: Old date scheduled for September 9-10.)

ADDITIONS

July 16 MINNESOTA — 16th Annual Minnesota Arrowhead Small Bore Tournament at Virginia, Minnesota. Laurence R. Cundy, 701 10th St. N., Virginia, Minnesota.

September 17 WISCONSIN—Fall Highpower Rifle Tournament at Racine. Dexter Rhodes, 3828 Sheridan Ave., Milwaukee 9, Wisconsin.

STOLEN GUNS

One Model 99 Savage 300 caliber rifle, #538593. Morcom B. Jones, 137 Locust St., New Bedford, Massachusetts.

One Colt Super .38 Automatic, #72666. Glenn Harman, 118 West Hathaway Street, Yakima, Washington.

One Parker D.H.E. 20-gauge double-barrel, #233132. M. W. Banton, Summit, New Jersey.

One Match Target Woodman, #25206. D. A. Stokely, 730 Colorado Avenue, Trinidad, Colorado.

One Colt .45-caliber pistol #710947. Lt. Col. L. K. Mantell, Percy Jones General Hospital, Battlecreek, Michigan.

One Enfield 30-06, #518661 with Weaver K25 scope; one Winchester 30-30, Model 64. Jr. R. Armstrong, 620 E. Sussex, Missoula, Montana.

One Remington 12-gauge gun. Model 31, #14900. Henry Anderson, Box 26, Rantorie, Illinois.

Bisley Colt 32-20, #245188; Bisley Colt 32-20, #288794; Bisley Colt 38 special, #245708; Woodsman Colt, .22 caliber, #14463-S; HMi Standard HDM, .22 caliber, #231500; Manbu Jap, 8mm., #6174; Mauser Auto. 9mm., #22951; Smith Wesson, 455, #65478; Colt Auto. 380, #74953; Lugar Auto. 9mm., #5639; Colt D.A. 38 special #5809. Stephen G. Wasley, 1619 East Anaheim Street, Long Beach, California.

One Colt .45 caliber pistol, #701947. Lt. Col. L. K. Mantell, MC, Second Army Station Hospital, Fort Knox, Kentucky.

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answers by THE RIFLEMAN'S PANEL OF EXPERTS

Julian S. Hatcher • Al Barr • Elmer Keith • M. D. Waite

NEW SAVAGE HI-POWER RIFLES

We are now engaged in test firing two newly redesigned carbine type bolt-action Savage rifles—the Model 340 in .30-30 caliber and the Model 342 in .22 Hornet. These guns take the place of the former Stevens Model 325 in .30-30 and 322 Hornet. The fact that they carry the Savage name, and that the superseded models are part of the Stevens line, will help to differentiate between them. Stevens is a division of Savage Arms Company.

While the basic design is the same, the new guns have many important improvements, both mechanically and in appearance. Neat, trim looking weapons, both guns have round, tapered, medium-weight barrels of Hi-Pressure smokeless steel and nice walnut stocks. The front sight on each is of ramp type with gold bead, and the open rear sight is of the new Dockendorff type with click micrometer elevation screw. It is one open rear sight that is really practical, and a big improvement over the cheap affair so often furnished. The receivers are tapped for receiver sights and Weaver side mounts.

The .30-30 has a detachable 3-shot magazine and the Hornet has a magazine of the same type which holds four cartridges. The Hornet has a 22-inch barrel and the .30-30 a 21 inch. Both guns weigh 6¾ pounds and have an overall length of 40 inches.

The short stiff tapered barrel is capable of excellent accuracy if well bedded. Samples we fired with factory ammunition and open sights gave good practical hunting accuracy, grouping in about 3 inches at 100 yards for the .30-30 and 1½ inches for the Hornet. These 5-shot groups were fired with the guns just as they came from the production line.

These guns in standard grade sell for $42.95 and are excellent value for the money. The Model 340-S DeLuxe and the Model 342-S DeLuxe at $53.65 have checkered grip and forestock, and are fitted with sling screw eyes, hooded tang front sight, and Savage No. 175 Micro Peep sight.—J. S. Hatcher.

RELINED COMBINATION GUNS

Of the numerous combination guns brought into this country in recent years, many of them could be relined to practical calibers and make good combination affairs for hunting purposes. The problem has been to get someone to do the work. Now we learn that two enterprising gunsmiths, Elmer Young and Paul R. Pearson, of 3044 N. 40th Ave., Omaha, Nebraska. do relining work on the three-barrel jobs. We have used several of the guns in .22 long rifle and Hornet calibers. Though fitted with a folding open rear sight and bead front, the guns gave phenomenally good results. Using a three-barrel hammer gun with the rifle barrel relined to .22 long rifle caliber, it was rather easy to put most all the shots in less than 1-inch groups. The .22 Hornet in a similarly relined three-barrel job of the hammerless type did no better, but 1¼-inch groups at 50 yards was quite common.

Pearson & Young ream out the old barrel and make the liner a snug press fit. It is held in place by several taper pins because they cannot sweat the inner liner in the barrel of these three-barrel combinations. From the experience we have had with several of these rifles we feel that they definitely can be recommended as being good and practical jobs. The probable price of relining a barrel to .22 long rifle, which requires relocating the firing pin and adding a new extractor, will be around $45. The price will be around $40 for the Hornet or center-fire jobs.—A. H. Barr.

REMINGTON 222 POWDER

Remington Arms Company has issued a warning to handloaders about the powder loaded in the new 222 cartridge. Though it appears to be 2400, an entirely new powder with completely different burning characteristics was developed for use in the commercial loading of the 222. The use of a charge of 2400 equal to the charge of powder used in the commercial loading would probably result in dangerously high pressures. Remington cautions against reloading 222 cartridges with 2400 powder.

EQUIPMENT FOR AFRICA

I am planning to secure a position in British East Africa when I finish college in 1952, and would like to do some hunting while there. As the only hunting I have done, as far as big-game goes, was for deer in Ontario, I would like you to help me plan my battery of rifles.

For the larger game such as rhinos, I think a double express is best. I have been communicating with Jefferys of London and can obtain a .470 which throws a 500-grain bullet at 2125 feet per second or a .450-400 which throws a 400-grain bullet at 2150 feet per second. Both weigh about 10½ pounds and are non-ejectors. Would you suggest either of these?

For small furred and feathered game I plan to obtain a Model 63 Winchester with a J2.5 or J4 scope. As for a medium bore I want a rifle which a small woman could carry and shoot and which would still be effective on game up to eland. I thought maybe a Model 54 or 70 Winchester in the 7-mm. caliber with a scope would be suitable. I would also like to be able to use all of these rifles upon my return to the United States.—Robert Hawkins, Mansfield, Ohio.

Answer by Elmer Keith: Write to my friend, F. Jeffery Pierce, Manager, W. J. Jeffery & Co., 9 Golden Square, Picadilly Circus, London, and get that good .470. An ejector is better for most work, but possibly not as good as the non-ejector for close work in and among a big herd of elephant. From the standpoint of lion, buffalo, and rhino, the ejectors are much better, so write to Pierce and see if he can get you an ejector. If not, I would take that .470 non-ejector. You can rely on anything Pierce tells you about the gun. It is a better stopper than the .400, though that also is very good, but of the two I would take the .470 for the big stuff.

The 63 Winchester with J2.5 is ideal for the guinea fowl, sand grouse, and such small pot shooting, but for the small medium bore I would suggest something heavier than the 7-mm. In a factory-loaded rifle and cartridge for plains game, I would suggest the model 70 in either .300 H&H with 220-grain bullets or the .375 Magnum with 300 grain. The light rifles will also be very useful back here again and while the .400 double is ample for the big bear, as long as the .470 weighs no more than the .400 it could also be used nicely in the alders of Alaska on the big bear.

MAUSER THREADS

MacFarland's article "Barrel Removal, Fitting and Chambering" is excellent and well written. However, under 'barrel threading' he gives the impression that Mauser barrels are threaded with a standard 60 degree V thread. This seems to be a quite common error among American gunsmiths. I have found many American barrels so threaded. As you are, no doubt, aware, all of the European made Mausers are threaded with a 55 degree angle between threads. The threads are Whitworth in form, but vary somewhat in lead. The old Mausers of World War I and before used a metric lead which had slightly more than 12 threads to the inch, making a barrel threaded on an American lead-screw lathe somewhat cranky to obtain a satisfactory tight fit. I have found a few Polish Radom Mausers of late manufacture to have the old metric lead. The late German, Belgium and other Mausers made in the 1920's and later seem to be a true Whitworth form 12 pitch thread, and give no lead troubles on an American lathe. The European method of fitting barrel threads to actions was to have a very tight fitting thread and to depend upon this condition and a firm bearing between the butt end of the barrel and the butt-ring inside the receiver ring. No attempt was made to obtain a bearing against the face of the receiver ring. There is nothing against having a bearing at both places as MacFarland describes, provided that the face of the receiver ring is exactly parallel with the face of the butt-ring, which it seldom is. The error is from .001 inch to about .003 inch and the face of the ring could be easily trued up, if a double bearing was deemed essential. The 5 degree error in angle between thread faces, when applying a standard 60 degree V threaded barrel to a 55 degree Whitworth threaded receiver ring, introduces some very unnecessary and undesirable troubles. First, it is not possible to thread to the proper pitch diameter, and one has to keep trying, as the thread is cut, until the receiver will start onto the barrel. Second, a barrel so threaded will creep out until some kind of a mating of thread faces is achieved as the result of firing. I have found the headspace gain on proof firing at Benicia Arsenal with barrels of .30-06 caliber, threaded with a 60 degree thread, to be anywhere from .002 inch to .004 inch, and these barrels were threaded as tight as possible. Of course, if the barrels had been loosely threaded, the headspace gain might have been even greater. I have found that correctly threaded and fitted barrels, with the pitch diameter of the thread to be the same as that of the female thread, gain .0005 inch on proof firing. This take up in the threads is negligible, and probably results from small error in grinding the threading bits. I have had no trouble with tightly threaded 60 degree V thread barrels loosening up, but I had one submitted to me which had not only been so threaded, but with a very loose fit in the receiver ring. This barrel had shot loose, and came off very easily.—NORMAN C. BATES, Alameda, California.

REAR LUG FIT

In fitting a new bolt to my 1898 Mauser, I find that the rear locking lug is in full engagement with the recess cut into the receiver. Is there any danger attached to this? —R. S. PANGBORN, Peoria, Ill.

Answer by M. D. Waite: In both the Mauser and Springfield actions some clearance should exist between the third or auxiliary locking lug and its recess cut into the receiver. With both rifles this clearance should be at least .004 inch when the bolt is held firmly to the rear. There is some danger of the rifle blowing apart if the rear locking lug is in engagement when the main or front lugs are disengaged.

SHOTGUN QUESTIONS

On page 5 of the February 1950 issue of the RIFLEMAN, shotgun choke, and also gauge, are described. Can you advise me regarding the following:

Does not a percentage of pellets of the shot charge which will strike within a 30-inch circle at 40 yards vary according to the length of the barrel, as well as according to the degree of choke?

I assume that the diameters (in inches) of the various gauges listed are for cylinder bore. Can you tell me the diameters of certain gauges not listed in your article—4 gauge, 14 gauge, 24 gauge, 28 gauge, and 32 gauge?

Can you also tell me the diameters of the various bores from 4 to 32 gauge for full-choked guns, improved modified, modified, and improved cylinder? (In other words, you indicate in the article that an 8-gauge gun of cylinder bore has a diameter of .835 inch.

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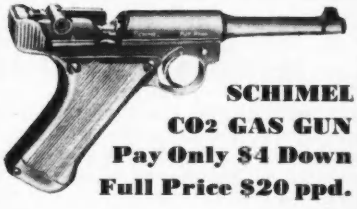

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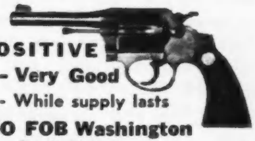

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VOL. 13, NO. 7

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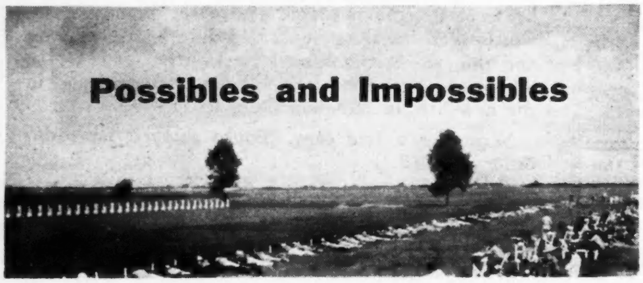


Possibles and Impossibles

The new refire rule, introduced this year by the N.R.A. Pistol Committee, was given its first test and first stamp of approval by handgunners who competed in the Mid-Winter Matches at Tampa and Miami. Since then we've talked to several contestants in Eastern Spring and early Summer events, and most of them think the rule a definite improvement.

Under the new refire rule a shooter is not completely out of the match in the event of malfunction of pistol or ammunition, as was formerly the case. Instead, he immediately notifies the Range Officer, by signal, of the malfunction and, after examination of the circumstances, may be granted the opportunity to refire his string.

* * *

This may be an old one but we got a kick out of watching it in action after hearing about it from one of our mid-western friends. Take an old rubber tire, a target, and a piece of beaverboard or similar material. Then find a hill with a backstop somewhere off the beaten track and you have the makings of a shooting good time.

The target is pasted (or painted) on beaverboard which is cut so as to fit snugly inside the tire. The riflemen then take turns firing at the target as it rolls down the hill. The real fun (for the other contestants) comes when the club hot-shot gets his lead and slowly squeezes—at the exact same moment the tire hits a bump and bounces high into the air! On rough ground the target acts like a white-tail buck in high gear.

* * *

Every once in a while we get a letter from a sportsman who wants an answer to the question: "Why is it that every time I go up in the mountains to do some shooting my rifle seems to give my shoulder an extra dose of recoil? Is this my imagination or does a gun actually kick harder at high altitudes?"

According to a ballistics engineer at E. I. du Pont de Nemours and Company, "the recoil of a cartridge depends primarily on the muzzle velocity developed by the cartridge. Since the muzzle velocity is the same at either high or low altitude because this muzzle velocity is developed within the bore of the gun and is unaffected by atmospheric conditions, it necessarily follows that the recoil should be the same in either locality.

"We can assign no reason from a ballistic standpoint for any difference in the amount of recoil when a given cartridge is fired at a low elevation and then at a high elevation except for the muzzle blast. When powder gases emerge from the muzzle they set up a second recoil reaction as they impinge upon the surrounding atmosphere. The air at high altitudes has less density than at low altitudes and, therefore, gives way more easily before the muzzle blast—which might be reflected by a slight increase in the recoil of the gun due to the higher exit velocity of the gases."

However, since the increase in recoil is so slight that it could hardly be measured, it is evident that the shooter's imagination is playing tricks on him in these instances.

"Palma," "Kleanbore," "Targetmaster" are Reg. U.S. Pat. Off: Core Lokt is a trade mark of Remington Arms Company, Inc.

ENTHUSIASM
OUTDOOR S

HUNTER'S CORNER: Montana Hunter Drops Grizzly With One Shot

Al Tweto and his 800 pound trophy

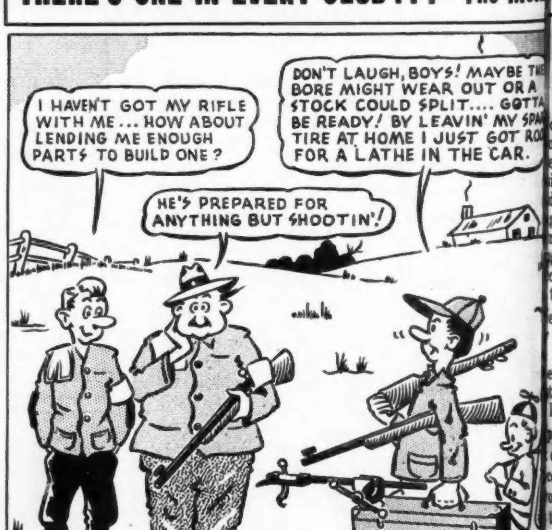
Missoula, Mont., July, 1950—Al Tweto's formula for bringing down an 800 pound is to mix one Model 72 one Remington 30-06 tridge, 180 grain, "Core Soft Point Bullet, find th and apply immediately.

Mr. Tweto, who hail Missoula, Montana, wa ing in the North Fork Blackfoot country wh spotted this big grizzly bear was about 50 yards leaving the country in haste. Mr. Tweto fir shot—and that's the on that was necessary.

30-06 "Core-Lokt" slug taken from bear's carcass.

Tweto believed slug wa examp unifor pansion have t —becau almost

THERE'S ONE IN EVERY CLUB . . . "The Mec


I HAVEN'T GOT MY RIFLE WITH ME... HOW ABOUT LENDING ME ENOUGH PARTS TO BUILD ONE?
HE'S PREPARED FOR ANYTHING BUT SHOOTIN'!
DON'T LAUGH, BOYS! MAYBE TH BORE MIGHT WEAR OUT OR A STOCK COULD SPLIT.... GOTTA BE READY! BY LEAVIN' MY SPA TIRE AT HOME I JUST GOT RO FOR A LATHE IN THE CAR.
HOERNLEIN

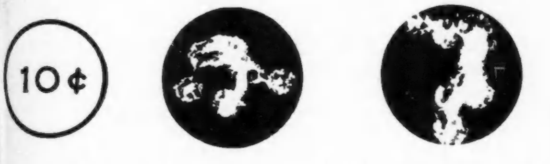
Re ton News

DGEPORT , JULY, 1950

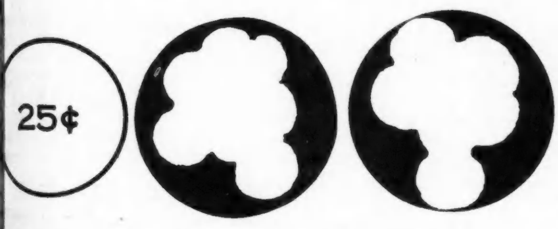
First Class Reading Matter for Rifle and Pistol Shooters

WEATHER:
HOTTER THAN A REGIONAL CHAMP

FEVER PITCH AS BIGGEST SON REACHES MID-WAY MARK



dime nearly covers these two groups, shot from machine rest at 00 yards, using "Palma Kleanbore" 22 cartridges.



quarter nearly covers this pair of machine rest groups. They were hot at 25 yards with Remington's new "Targetmaster" 45 Wad Cutter.

MID-WEST PISTOL CLUB WINS MEMBERS BY MAKING SHOOTING A FAMILY AFFAIR

ot long ago, a mid-Western l and rifle club we know elected an aggressive new ident. This new president ded there was just one wrong with his club's mbers. There weren't gh of them. So he launched cruiting drive that was, to the least, unique.

e asked present members they missed meetings. majority of answers ran ething like: "awfully busy now, and my wife, well know how women are."

pparently the new presi- did. He decided that shoot- could be just as interesting omen and older children as to men. Pursuing this idea ot the program committee et up special events and training courses for , sons and daughters of ber shooters.

Skeptical Member

The new idea caught on slowly at first. One senior member of the club said he'd "be darned if he'd have a buncha' women gabbin' while he was tryin' for a possible." But a couple of "co-educational" meetings changed this senior skeptic into the best family pistol coach the club has.

Family Fun

Now, this pistol club is a real family headquarters. The place is spruced up clean as a new minted penny and attendance among old and new members alike, is greatly improved.

The new president, whose extra work made this big change possible, claims he was amply rewarded for his effort. A few weeks ago a young wife stepped back from the firing line. "You know," she said, "these sights must be off. I dropped 5 at rapid fire."

REMINGTON MATCH AMMUNITION WINS PRAISE FROM TOURNAMENT SHOOTERS

Bridgeport, Conn., July 1950—As one veteran shooter put it: "Whew, what a season!" He was talking about the crowds at the matches he's attended and the amazing number of shooters competing.

He couldn't have been more right. NRA says this season tops them all in numbers of registered shoots. Mid-season reports from around the circuit say that attendance is way up, among competitors and spectators.

Then there's that important element called enthusiasm. You can't measure it like you do numbers of tournaments and attendance. But you can certainly feel it. Everywhere shooters are enjoying their hobby. They're happy to be shooting, and glad to welcome new members into their ranks.

With more shooters, wider popularity of the sport, better scores are being chalked up. Increased competition accounts for some of this. But better ammunition is making a difference too. The Remington Match ammunition they're shooting this summer is the hottest stuff that ever ventilated an X-ring!

Tight Tolerances

Uniformity of materials and consistent, tight manufacturing tolerances are the principal ingredients of tight groups. The slightest deviation from this absolute sameness and a "possible" becomes a "flyer."

The men at Remington know that every cartridge they produce can make the difference between winning and losing a close match. That's why manufacture of every Remington Match cartridge is carefully controlled from start to finish. And then thousands of test samples are fired as the final proof of uniformity.

When the going gets tough at the Regionals, remember that the manufacture of the "Palma Kleanbore" or "Police Targetmaster" you're shooting is as carefully controlled as human skill can make it.

"Targetmaster" 45 Wad Cutter

In handgun competition, more and more shooters are placing their reliance in the fine accuracy and smooth all-around performance of Remington's new 45 caliber "Targetmaster" Wad Cutter. The grapevine we've tapped says that shooters marvel at the way it shoots in their pistols. It feeds and ejects easily through standard 45's along with the "souped up" models.

At the next big match make every shot count—make your cartridge Remington's "Targetmaster" 45 Wad Cutter.

SHOOTERS SMOKE BOX

Shooters hand made cigarette box with beautiful walnut finish. A popular item with all shooters . . . attractive and practical.

Blackinton's novelty items are designed with the same care as are the popular Blackinton medals and trophies. Remember Blackinton medals are a prize to every shooter.

by BLACKINTON

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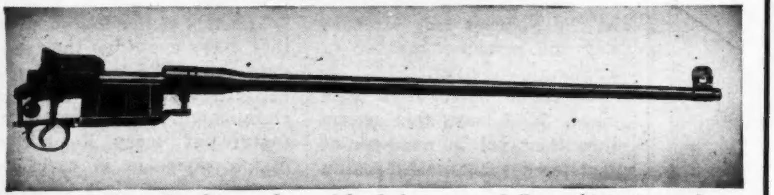
REMINGTON AND WINCHESTER PATTERN No. 17

30/06 ACTIONS AND BARRELS



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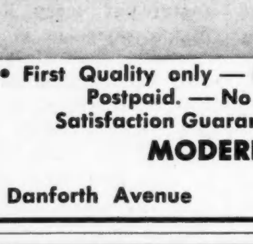

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¼ dia. 1100 lb. test .08 ft.
⅜ dia. 2650 lb. test .15 ft.
5/16 dia. 1800 lb. test .10 ft.
7/16 dia. 3750 lb. test .22 ft.
½ dia. 4900 lb. test .28 ft.

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CATALOG FREE

W. F. OHLEMEYER
Box 2023 • El Paso, Texas

I would like to know what the diameter of such a gun would be in the various degrees of choke.)—R. Alexander Montgomery, Philadelphia, Pennsylvania.

Answer by Elmer Keith: Most authorities claim that a 24-inch barrel of any given choke will pattern just as well at 40 yards as a long 32- or 34-inch barrel. I have never found this to be true in many years experimental shotgun work, and the longer tubes of equally good boring have always given the better patterns and have proven the better killers on game. For one thing, each inch of additional barrel length gives about 7½ feet more velocity. Another thing—more important—is the fact that pressures fall off greatly by the time the shot charge reaches the muzzle of the gun. The longer the barrel, the less the charge is affected by muzzle blast as it leaves the gun. I have found the long barrels to give slightly better patterns, slightly more velocity, and better average killing in the field.

The English have the best system of recording degree of choke. They call .01 inch a point of choke. For instance, take 12 bore as cut by Holland & Holland of London. The standard 12 bore is .729 inch. As they cut chokes, the following is the true measurements in thousandths of an inch at the choke.

Improved cylinder	.005 inch constriction
¼ choke	.010 inch constriction
½ choke	.020 inch constriction
¾ choke	.030 inch constriction
Full choke	.040 inch constriction

Deduct these from .729 to get inside choke measurements. While the 12 bore will handle .040-inch choke and the 10 bore up to about .050 inch, the smaller bores require less constriction.

Diameters for other gauges besides those listed are as follows:

Gauge	*Diameter*
2	1.325 inch
4	1.052 inch
14	.693 inch
24	.579 inch

LEAD DUST IN SHOOTING GALLERIES

Enclosed is an article in the Baltimore Health News about the hazards to health of lead dust in shooting galleries. I believe it contains information you and others in the National Rifle Association would be interested in.—C. H. Borcherding, Jr., Baltimore, Maryland.

Answer by General Hatcher: This matter was pretty sharply brought to the attention of the ammunition companies when that report came out in 1947 and as a result they have taken steps to lick the problem. The new Remington Spatterless gallery .22 and the Peters Krumble-ball both contain no lead and, therefore, are safe from any such poisonous effect in shooting galleries.

NEW KV WEAVER RANGE-FINDER SCOPE

Recently we have been using the new variable 2¾ to 5 power KV Weaver in our shooting and it has proven very satisfactory. Optically it is a very fine scope and the variable power factor makes it ideal for use with rifles for .30-'06, .270, or .257 Roberts which are used for big-game hunting as well as varmint shooting. Changing magnification from 2¾ to 5 power does not change the point of impact, and internal adjustments are entirely reliable. We are using the scope regularly on a .270 rifle, and the combination is just about ideal.—A. H. Barr.

LOAD FOR .40-50 SHARPS

I would like advice on the proper granulation of blackpowder to use in reloading .40-50 Sharps cartridges. Gun is in excellent condition and I plan to use approximately 250-grain bullets. Are there any smokeless or semismokeless powders on the market today that may be safely used in this blackpowder rifle?

I understand that lead alone does not produce a satisfactory bullet. Will 90 parts lead, 5 parts tin, and 5 parts antimony produce bullets that are too hard for this rifle? Is it necessary to use a fluxing agent in casting lead-alloy bullets?

Is .002-inch oversize about right for a lead-alloy bullet for the .40-50 Sharps (minimum groove diameter is .403 inch)?—D. W. TABBUTT, Philadelphia, Penna.

Answer by Elmer Keith: I would advise using FFg blackpowder in that .40-50 side-hammer Sharps. Also, use paper-patched bullets of from 285 to not over 330 grains weight. Yankee Specialty Co., Erie, Penna., can cut you a patch mold for a 285-grain weight bullet.

I would never recommend smokeless for the old Sharps. It can be used, but better results will result from blackpowder to say nothing of increasing the safety factor in the side-hammer Sharps. All of these guns had large firing pin holes in the breech block and any of them without the small dove-tail firing pin guard in back of breechblock will spit fire or brass in your eye if a primer is pierced.

The Sharps shoot much the better with a rather soft bullet, never harder than one part tin to 16 parts lead, the factory standard. I have found most of the guns give finest accuracy with bullets not harder than one to 20, and some even softer. I have loaded thousands of the larger Sharps, but never did own a good .40-50 though I have both .40-70 and 40-90 now. Drop a small lump of tallow into the melting pot and stir, and it will flux the metal and clean it perfectly. I have never had as good accuracy from a grooved lead bullet in a Sharps and much prefer the patched bullet, which should be but little over bore diameter, not groove diameter, as all are upsettage loads and the proper patch bullet will often shove easily through the bore with a cleaning rod before firing.

ARMAF DISTRIBUTOR

In the February Dope Bag, page 56, we mentioned the availability of modern shotgun barrels made by the Belgian firm of ARMAF for replacing Damascus barrels in old shotguns. We have recently learned that Continental Arms Corporation, 697 Fifth Ave., New York 22, N. Y., is the exclusive distributor for the United States of ARMAF guns. Mr. A. T. Tonkin, President of Continental, tells us that the Corporation maintains very sizable stocks of these guns as well as those of other Belgian makers, such as United Arms, Jamart & Co., Dufourney-Sevrin, and A. J. Defourney.—J. S. HATCHER.

TWIST OF JAP 7.7

I want to convert a Jap 7.7 to .30-'06 or .300 Savage, whichever in your opinion would be the best and safest. What is the twist of rifling in a Jap 7.7, and how will converting to another caliber affect accuracy?—C. B. KRAUS, Albuquerque, New Mexico.

Answer by General Hatcher: Have that 7.7 converted to .300 Savage, not .30-'06. The .30-'06 cartridge is too small at the rear end to be a good fit in the chamber of the Jap 7.7

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We unconditionally guarantee that our hot blue kit will give a better and more lasting finish than any cold blue kit on the market today or equal to any other hot blueing process now in use. Only using a hot solution can an amateur get professional results. Only Herter's supply such a kit. It is also ideal for professionals to use on individual rush jobs. Save triple the cost of the kit with your first job. Enough European type compound for five rifles, including blue remover, a 36" steel tank, crocus cloth and a complete manual of instructions. Nothing more to buy. Complete kit $2.90 FOB Waseca.

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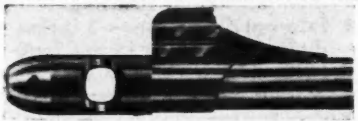
SHOOT WITH COMFORT

Herter's new Recoil Eliminator (Patent Pending) features an entirely new principle of design which traps gas at the tip. Not a muzzle brake. The gas goes to work for you, acting as a force to pull the rifle from your shoulder upon discharge. It softens the jolt of a 30/06 to a mild pressure, allows man, woman or child to shoot high powered loads without flinching. This revolutionary shooting aid greatly increases the accuracy and speed of your shooting, since muzzle movement is reduced to a mere fraction. Reduction of jump permits you to hold close for that faster second shot. Herter's Recoil Eliminator does not change muzzle velocity, and it tends to increase accuracy by reducing outlet wobble which is normally set up by the burst of escaping gas. No muzzle blast for the shooter. Hand polished. Beautifully blued. Any competent metal worker can handle simple installation details. 28 thread setup. AND THE PRICE FITS THE BUDGET OF THE AVERAGE MAN . . . considerably less than that charged for first-line recoil pads. Available for all but auto-loading rifles.



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SCHNABEL FOREARM TIP

Cored Bacite tip with ¼" walls mounts easily with attached screw. Exclusive with Herter's. Fits regular forearm. Each $1.35.

FINEST STEEL SLING SWIVELS

Herter's famous detachable swivels are not new-fangled gadgets. Built of best quality steel, hand polished and blued, they are guaranteed not to twist, turn or work loose. Gen. Hatcher says, "These are attractive well machined articles with a substantial appearance, and they work as well as they look." Supplied with 1 and 1¼ inch slings. Swivel with wood screw for butt $1.00; with machine screw and nut for forearm $1.25; with barrel band (specify size) $2.00.

FANCY BLANKS

For Fine Custom Work

The largest stock of plain and fancy blanks available in America today is available at Herter's. All blanks are dried down to a moisture content of 7% or less and vary in price with the beauty of the grain. AMERICAN WALNUT SPORTER LENGTH BLANKS: Six price ranges from $2.75 through $31.00. AMERICAN WALNUT MANNLICHER LENGTH BLANKS: Field and custom grade, only, $5.00 and $9.50; FRENCH WALNUT SPORTER LENGTH BLANKS: Four price ranges from $7.00 through $40.00. CURLY MAPLE SPORTER BLANKS: $16.00 and $30.00. MYRTLEWOOD BLANKS, SPORTER LENGTH: $14.00, $22.75, $31.50. LAMINATED WALNUT AND MAPLE BLANKS $16.85. SHOTGUN STOCK BLANKS: Five price ranges from $1.33 through $8.70. SHOTGUN FOREARM BLANKS: Five price ranges from 40¢ through $1.75.

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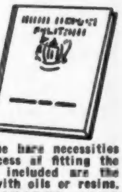
ALL STOCKS POSTPAID

Stocks machine sanded with Bacite buttplate, grip-cap and forearm tip attached. Ivory or black spacer plates installed between stock and fittings optional at no additional cost. Inletting guide pins supplied free of charge.

For steel fittings, add 75¢ to cost of any stock listed; steel fittings installed 75¢; for Streamliner or Schnabel tip, $1.00. Streamliner or Schnabel tip installed add 50¢; for adding white spacer behind Streamliner tip, add 70¢. For any stock machined to final outside dimension, ready for final sanding, add $2.25. Add $7.00 for stock completely hand inletted so that rifle will drop into place with no further work.

FANCY WALNUT STOCKS: Custom grade $11.45; Demi Deluxe grade $15.00; Deluxe grade $20.95; Grand Deluxe and Grand Fiddleback grades $35.00. French walnut, Field Grade $8.95; Custom grade $21.00. Laminated Maple and Walnut stocks $29.00. All precision inletted with Bacite fittings attached, spacer plates optional. Write for quotations on stocks in curly maple and myrtlewood. Mannlicher type stocks for Mauser, Springfield, Enfield $11.50.

FITTING AND FINISHING MACHINE INLETTED STOCKS



Here is the only complete manual ever written on the subject of fitting and finishing machine-inletted stocks. William L. Humphrey, outstanding American stocker, is the author, and he has thoroughly covered the subject from an outline of the bare necessities for tools through the step-by-step process of fitting the action and bedding the barrel. Also included are the details of final shaping and finishing with oils or resins. MANUAL SUPPLIED WITHOUT CHARGE WITH EACH GUNSTOCK UPON REQUEST OF CUSTOMER ONLY.

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These stocks are completely ready for use in the field and are absolutely guaranteed to be the finest available in the price range which they represent. Available with or without Monte Carlo comb and with a cheekpiece for a right hand shooter. For stock fitted with forearm tip, add $1.25. Spacers optional at no extra charge. Add 75¢ for metal fittings; $1.50 for streamliner or Schnabel tip. Add $3.00 for fitting stocks to actions with conversion barrels of standard sporter dimensions or smaller. Enfield stocks are designed for the straightened floor plate, with or without modified bolt; on Mauser stocks, specify whether battle sight sleeve has been removed.

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"Naturally, I took the gun apart and inspected the inletting very carefully and . . . it is a very nice job. I like the close hand fitting and as long as you can turn out that kind of work I think you can get plenty of recommendations."

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and, therefore, the conversion to .30-'06 is not safe. If the .30-'06 cartridge case is made of brass that is too hard, or if it has any weakness near the base, it may split in the converted Jap and let out gas, with disagreeable or even dangerous results. On the other hand, the .300 Savage makes a safe and satisfactory conversion, if the barrel is removed, set back and rechambered.

The twist of the gun is one turn in 9.7 inches, which works very well with a .300 Savage.

FIRE FORMING CARTRIDGE CASES

Many times when factory shaped cases are blown out in so-called improved chambers such as the .219 Zipper the cases crack at the enlarged shoulder. To avoid such damage Theodore M. Long, 40 S. Bridge St., Somerville, N. J., makes the portable Long recording chronograph, suggests that before cases are fired the neck and shoulder only be lightly oiled. The oiled neck aids in blowing out cases without so many loses. Naturally it is important to be careful that oil is not left on the base end of the cartridge case. —A. H. Barr.

INCREASING SHOTGUN RANGE

My partner and I have a Winchester Model 21 (with two sets of barrels) and an L. C. Smith Field Grade, both in 12 gauge. As we do a considerable amount of hunting for fox, coyote, and bobcat with hounds, and most shooting is in brush at ranges up to 100 yards, we want to increase the killing range of our shotguns. One way is to chamber our guns to handle 3-inch shells. What effect will the 3-inch chamber have on shorter shells for bird hunting? Would cutting the extreme forward end of a 3-inch shell (so that the end would shoot out instead of opening into the cone) cause any complications if it was fired in a 2¾-inch chamber? — Richard Gralewicy. Weyerhauser, Wisconsin.

Answer by Elmer Keith: You could have those 12-bores rechambered for the 3-inch Magnum 12-bore shell and use 1⅝ ounces of No. 2 shot for a good load. You might have to relieve the choke slightly for best patterns with the big shot, but only pattern tests would tell.

Do not cut the Magnum shell or attempt using them in 2¾-inch chambered guns, as you will boost pressures up to the dangerous point.

PIERCED PRIMERS IN THE M2 AP AMMUNITION

Recently, in firing armor-piercing cartridges in my Enfield, the primers were not only pierced but small discs were blown clear out. Not all armor-piercing cartridges blew this way, just part of them, and I have never had the ball M2 cartridge do it.

One day I noticed some rust in the bolt and, when I took it apart, it was a solid mass of rust. That stuff is really corrosive.

Do you think the primers were bad, the cartridges too heavily loaded, or is my firing pin too long?—L. A. Haddox, Parkersburg, West Virginia.

Answer by General Hatcher: We have had several other complaints of a similar trouble with the armor-piercing M2 cartridges.

The discs that were punched from your primers indicate your firing pin hole in the bolt is a little oversize. This, coupled with the extra pressure in the armor-piercing cartridge, is probably what causes the trouble.

One thing that might help would be an

extra strong spring for your Enfield, which can be obtained from Kenneth Clark, Madera, California.

'S' ON SPRINGFIELD

The barrel of my 1903 Springfield is marked with a circled S stamp. Does that mean that it was manufactured at Springfield Arsenal? —J. D. KUHN, Needles, Calif.

Answer by M. D. Waite: Your Springfield rifle barrel was manufactured in 1941 by the firm of R. F. Sedgley of Philadelphia, Pennsylvania, under contract with the U. S. Marine Corps.

RIFLE FIRED WITH ONE HAND

I wonder if you could settle an argument between a friend and myself as to what would happen if a man held a rifle like a .30-'06 in the same manner you would hold a pistol, that is, free in one hand, and pulled the trigger with a factory load.

Would the results be disastrous or would the hand and elbow be able to absorb that amount of recoil?—WILLIAM J. MURRAY, Boise, Idaho.

Answer by Elmer Keith: Nothing serious will happen if you shoot a .30-'06 in one hand. I have so fired hundreds of them at arm's length when I was doubtful of a load or an action, so as to get the gun away from face and eyes. Your hand, wrist and arm have considerable give and spring, and the recoil merely carries your hand back a ways. I have also fired 12-bore shotguns this way, though the 12-bore pounds your hand a bit.

9.5 x 57 MANNLICHER-SCHOENAUER

Please give me the ballistics on the Mannlicher-Schoenauer rifle, caliber 9.5 x 57. I have a very fine rifle of this caliber with 22-inch barrel and beautiful stock, and would like to know what performance to expect.—S. W. GERHARD, Jamaica Plain, Mass.

Answer by General Hatcher: The 9.5 x 57 Mannlicher-Schoenauer is a short, hard-hitting cartridge that became very popular in Germany and Austria. The bullet weight is 271 grains; muzzle velocity, 2148 feet per second; and muzzle energy, 2791 foot pounds. You can see that, with that bullet weight and velocity, it is a very potent cartridge.

AMERICAN POWDERS FOR BRITISH CARTRIDGES

Most British cordite elephant loads can be reloaded with American cool-burning powders. We have found that DuPont 3031 works very well in about all of them which have nearly straight cases such as the .375 Nitro Express, 400-360's, .450 straight 3¼ inches.

For the .465, .470, .476, and similar loads, 4064, which bulks up a bit more, works well. None of these powders will fill the case however, and we find that a square sheet of toilet paper wadded up and placed on top of the powder before the bullet is seated works very well as it is exactly the same weight and bulk for each sheet and seems to be well consumed in firing. This holds the powder back against the primer. In all our experience the British cordite load had to be exceeded to bring the big rifles up to normal impact. One .450-400-3 inch double shot very well with just 63 grains of 4064 and the 400-grain bullet, no paper wad, and another shot perfectly with 65 grains of the same powder while our best W. R. double .450-400 does perfect work with 67½ grains of 4064 and the 400 grain. Our W. R. 400-360 shoots perfect with 48½ grains

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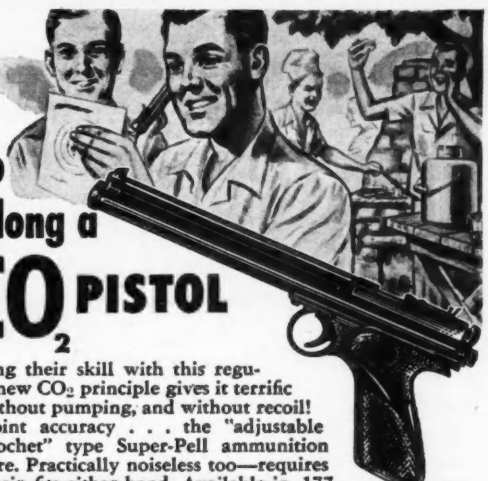

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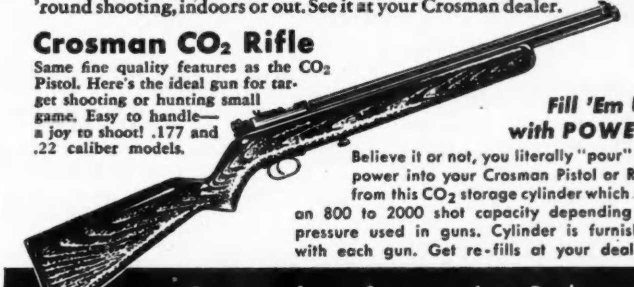

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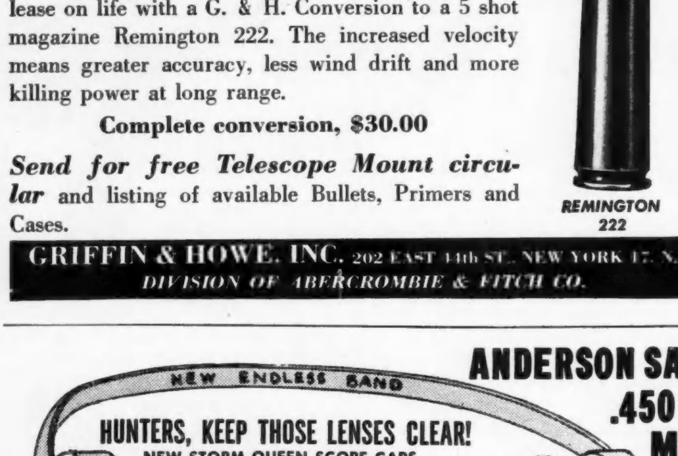

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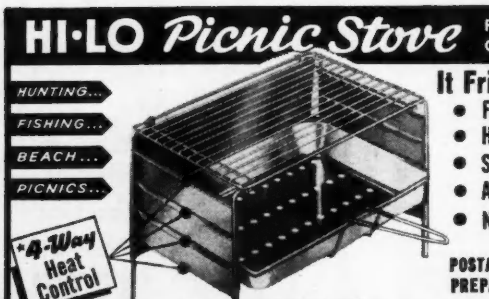
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3031 and the 314-grain British bullet. Thes powders can also be used with the .505 Gibbs .404 Hoffman or Jeffery and we would expec that 3031 would prove about the best bet fo the 577 and 600 but have not reloaded fo either of these two largest loads as yet. DuPon 4350 seems a bit too slow for any of the bi loads. Though it bulks up well an enormou charge is required to bring them to prope elevation and we had to go to 78 grains o 4350 with the 400-grain bullet in the three inch .450-400 bore rifles and pressures the seemed higher than the above loads of 4064 With all double rifles pressures must be kep down to normal or harder than normal extrac tion will occur with consequent wear on th hinge pin which is not good on an expensiv rifle.

Hi-Vel No. 2 is also a most excellent pow der for the big loads giving standard velociti with relatively low pressures but this powd is also hot like cordite and will erode th throats in the same way. Loads for all doub rifles should be held down to 35,000 pound or preferably less pressure while the big Ma num Mausers such as the .404, .416, .42 and .505 can be safely loaded to much highe pressures and velocities.—Elmer Keith.

BUTTON GAUGES FOR HEADSPACE

I was advised by a manufacturer of butto type headspace gauges for .30-30 that th No-Go gauge could be used with the follow ing calibers with the same accuracy, namel .219 Wasp, .219 Zipper, .22 Savage Hi-Powe .25-35 WCF, .32-40, .32 Winchester Specia and .38-55 WCF. Wouldn't case variations i these various calibers make this propositio impossible?—Arnold Hayne, Brooklyn, N.Y

Answer by General Hatcher: All the cartridg mentioned have a maximum rim diameter o .506 and a maximum rim thickness of .06 inch. Accordingly, a button gauge should wo satisfactorily.

LOADS FOR THE .250 DONALDSON

There seems to be considerable interest i the recently developed .250 Donaldson ca tridge which L. R. Wallack, Jr., is featurin Since very little loading data has been avai able, Wallack sends along .250 Donaldso loads which he has used in a 28-inch barr having a 14-inch twist. With 100-grain Sierr bullets and 45 grains of 4350, velocity is 310 feet per second. With 46.5 grains and th same bullet, velocity is 3175 feet per secon With 45 grains of 4064 and 87-grain Sierr bullets, velocity is 3350 feet per second. Wit 45 grains of 3031 and the 60-grain Hornad bullet, the recorded velocity was 4010 fee per second.

One of our heavy .250 Savage bench gun was recently rechambered for Wallack for th Donaldson, and so far, for bench rest shoo ing the best accuracy I have obtained is wit bullets made in .25-caliber RCBS dies. Th bullets as we make them weigh 97.5 grain and very fine accuracy has been obtained usin 43.5 grains of 4350, which is quite a mil load.—A. H. Barr.

.32-20 IN LOW-NUMBERED COLT S.A

I recently fell heir to two Colt Fronti models. One of them is a .32-20 and has black powder number, 145777. It is in pa ticularly nice condition and I keep gettin the itch to make something more shootable out of it. I have been wondering about having the .32-20 rebored to .38 Special. Is the steel of the older Single-Action cylinders capable of being heat treated to withstand smokeless loads if they are rebored? If they are rebored without heat treating, how safe a proposition are they?

I have never heard of a black powder number gun blowing up with factory pistol loads in smokeless. The .32-20 rebored to .38 will have a pretty thick cylinder wall and I keep trying to sell myself that the rebored job will stand up under factory smokeless loads or sensible reloads.

General Hatcher and W. H. B. Smith have both set the information down in black and white about smokeless numbers, but if one of your group would care to "stick his neck out" a little further it will be appreciated. There are a couple of other fellows locally in the same boat with me on this. Since the price of a secondhand Single Action has gone from $10 to $100 or so, we feel that we have to get these old guns out once and awhile and shoot them.—J. H. MURPHY, Saginaw, Michigan.

Answer by Elmer Keith: That old .32-20 will stand about anything you want to put into it. For small game the .32-20 is a far better load than the .38 Special, believe it or not, and you can handload the old gun with the 115-grain soft point and around 10 to 11 grains of Hercules 2400 and get about 1500 feet per second out of it with good accuracy. If rebored, it would make a first-class .38 Special good for any load, even my heavy .38-44 load of 160-grain Keith hollow point and 13.5 grains of 2400. No doubt the later heat-treated steels are stronger, but the massive old Single Action cylinders in .32 and .38 Special will take anything within reason you use in them.

I have seen .44-40's and .45's go all to pieces, three chambers and the top strap being blown off, but I have never known a .32-20 or .38 Special caliber Single-Action Colt to blow up with any load. You can use those two Single-Action Colts in small caliber with every confidence.

9 x 57-MM. MAUSER

Last year I purchased a secondhand rifle with two boxes of shells. Now I have one box of shells left and am unable to purchase more. They are marked Winchester 9-mm. Mauser 280-grain soft point, adaptable to Mannlicher or Mauser rifles, so I really do not know what make rifle I have. It is a sporter with a cheek rest on the stock, double trigger, and marked on the breech end of the barrel "8.8 mm. 57." The bolt will work in an 8-mm. Mauser military rifle. In fact, the bolts are identical, except my bolt handle is flat instead of having a round knob.—ANGELO MARTINO, Nazareth, Pennsylvania.

Answer by Elmer Keith: You have one of those good old 9 x 57 Mauser sporters and a very good cartridge it is for all American game. J. W. McPhillips, 285 Mastick, San Bruno, California, can furnish you handloads, and Abercrombie & Fitch, Madison Avenue and 45th Street, New York City, should be able to furnish you factory loads, as can M&H Sporting Goods, Philadelphia, Pennsylvania, as well as Stoeger Arms Corporation, 507 Fifth Avenue, New York, N. Y., and others who advertise in the RIFLEMAN.

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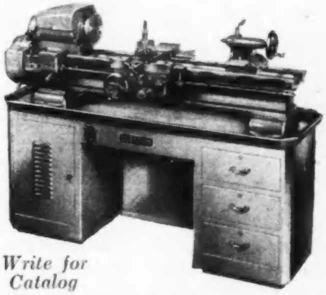

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Rem. Cal. 30/06 180 gr. CLSP	C	4.94
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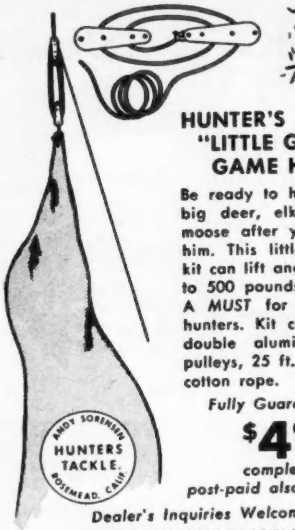
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W. P. SPOFFORD, Route 4, Box 10G, Pensacola, Fla.

.45 CALIBER MAGNUMS

Of notable interest to big-game hunters who wish to use extremely heavy bullets should be two new developments using very heavy .45-caliber soft-point bullets. H. B. Anderson, 1203 Broadway, Yakima, Washington, recently sent us some information on the .450 Watts Magnum, a cartridge named after James Watts, geologist, explorer, and big-game hunter. Apparently this cartridge was developed after three close calls with Alaska brown bear when the .375 H&H Magnum was used.

The .300 or .375 H&H Magnum cases are expanded and loaded with 400- and 500-grain bullets made by Fred Barnes of Box 56, Golden, Colo. Loading dope passed along by Mr. Anderson indicates that with a 480-grain Kynoch bullet he uses 75 grains of 4895 powder. The same charge is used with 500-grain Barnes bullet and 85 grains of the same powder is used with 400-grain bullets.

Chronograph figures have been obtained on several loads. With the 400-grain Barnes bullet, a recorded velocity of 2943 feet per second is attained. With the 500-grain Barnes bullet, velocity of 2563 feet per second has been obtained. Rifles are built up on the Enfield, Model 70 in Magnum caliber, or Magnum Mauser actions.

In Denver last fall, P. O. Ackley showed us his own version of a .45-caliber wildcat also based on the big belted case. The Ackley version of the .45 Magnum does not use a straight tapered case such as the Watts does. Ackley wanted to use more powder so the body taper of the case was reduced and there is a slight indication of a shoulder on the case, even with the .45-caliber bullets seated. Practically identical velocity data is reported by Mr. Ackley using his own version of the cartridge and 400- and 500-grain bullets.—A. H. BARR.

LOADS FOR .38 SPECIAL

I wish to handload for the .38 Special in a S&W Outdoorsman, using No. 2400 powder. I want a high-velocity load a la Elmer Keith. I am using the 164-grain Bond bullet No. 358687 which is seated deeper than normal.

Please advise what you would consider a maximum load and give estimated velocity. I do not want to go much above 20,000 pounds. Bullets are sized .358 inch for a .357 inch groove diameter barrel.—P. L. HANSCOM, Fairfield, Maine.

Answer by Elmer Keith: I cannot recommend a load for a different bullet for which I have never loaded. If you have the heavy-frame gun, then you might try the Bond bullet with No. 2400, but start low and work up, but if it is a deep-seated wadcutter I would not try 2400 powder at all.

If you want my heavy handloads and have a heavy-frame gun, either the Colt Single Action or New Service frame or the S&W Heavy Duty or Outdoorsman or Magnum, then I can give you my loads for them. Use the Keith Ideal bullet 160-grain hollow point No. 358439 and 13.5 grains of Hercules No. 2400 powder in Remington .38-44 cases and Remington primers with a good crimp and bullets sized to .001 inch over groove diameter of your gun. This load will give you from 1300 to 1400 feet per second, depending on barrel length.

GASCHECK LOADS FOR .30-'06

Alton H. Hudson, Keene Valley, New York, has developed a number of good .30-'06 loads which use the 154-grain Bond-Loverin gascheck bullet No. 311910 seated to a seating depth of .40 inch. One of the best is 16 grains of No. 2400 powder with a Winchester 115 primer, which gives 1450 feet-per-second velocity. With 20 grains of No. 2400, the velocity is 1720 feet per second. Loads with 14 grains of No. 4759 and the Winchester 115 primer give a velocity of 1370 feet per second. A heavier load of 21 grains of 4759, with the same bullet and primer, gives 1952 feet per second for good accuracy. With 23 grains of No. 4759, the velocity is 1951 feet per second; with 24 grains it is 1977 feet per second. Poor accuracy was obtained with heavier powder charges of No. 4759, but accuracy was very good with the other loads given.—A. H. Barr.

6.5x57 MM. LOADS

Coming to the handloader's aid with additional loading data for the 6.5x57 mm. cartridge is Robert H. Foley of Sterling, Colorado. Apparently he has developed several good loads for this caliber, which he likes very much. Number one consists of the 100-grain Modern Gun Shop bullet ahead of 36.5 grains of 3031 for a medium-velocity load. Experimentally the charge was run up to 38.5 grains but the lighter load gave better accuracy. Load two is one with the 100-grain bullet and 46 grains of 4350. This load, according to Mr. Foley, is comparable to performance of a .257 load with equivalent bullet weight. Load Three consists of a 129-grain Modern Gun Shop bullet and 44 grains of 4350. This load is particularly accurate. For midrange shooting, the Ideal 118-grain cast bullet is used with 10.5 and 13.5 grains of 4759. The lighter one is for a basement range load.—A. H. Barr.

OVER BORE CAPACITY

In the April 1950 issue of the Rifleman, page 61, in answering a question on the .300 Magnum, you used a term, over bore 'capacity' which I do not understand. What does it mean?—George Pearson, Porterville, California.

Answer by Elmer Keith: To have the right capacity for a given caliber or bore with a certain weight bullet, a cartridge case should hold just about the maximum permissible charge and no more, with some compression of the charge. That situation gives the most uniform of all rifle results.

A big case that is over bore capacity holds more powder than you can use for safe pressures with a given weight bullet, and it must be loaded with considerable air space. That in turn means the cartridge is not full of powder. When you shoot downhill the charge is in the front end of case and when shooting uphill the charge rattles back to the rear end of the case. Pressures and velocities are almost always more erratic than when the case is just the right size and the charge fills it.

Very often an over bore capacity case does not give a bit more velocity for a given caliber and bullet weight than does a much smaller case with the right amount of powder. Also, the larger case will have to be loaded with more powder to compensate for its larger capacity and bring the bullet up to normal velocity. Many of our present cartridge cases are over bore capacity. With the .220 Swift, for instance, you can get just as high velocity with less powder in a smaller case and have a much wider tolerance point in your favor when loading.

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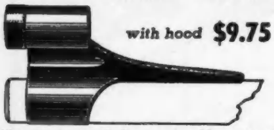

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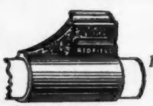

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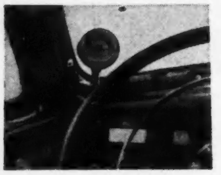

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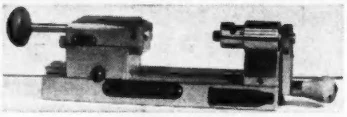

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I would like to pass on to you a 'recipe' a South American correspondent has for making hard-to-get bullets for his Westley-Richards .470 Express rifle. Colt ACP cartridges are torn down, the primer fired, and the empty brass filled with a predetermined amount of fine lead shot. The bullet is replaced and crimped in. Afterwards the whole assemblage is placed in a small furnace until more or less fused together as one unit. With a hole bored in the bullet portion, this makes a total bullet weight of around 500 grains with not only good shooting, but mushrooming properties as well.—Harry Wandrus, Milwaukee, Wisconsin.

MORE ABOUT CARBINE LOADS

I noticed your letter and answer on "Carbine Loads" in the April issue of the Rifleman, and thought that some findings of mine on reloading this cartridge might prove interesting.

While attached to an Ordnance company of the Illinois National Guard for a year, I was in the small arms repair section. My work was mainly on carbines, and I picked up quite a bit of good once-fired brass. I have used both the uncrimped (primer) EC brass and the crimped WRA stuff. So far the WRA seems to hold more powder and give better results. It might be due to the fact that the EC wasn't annealed and the WRA was noticeably darkened for about ½ inch from the neck.

My first loads (Pacific Super tool, Hollywood dies) were with the only light bullets of .308 I could find. They were plain-base 85-grain type-metal bullets and the EC cases. I loaded up to 17 grains of No. 2400 with the Winchester No. 116 primers and these light slugs. There were no pressure signs and, believe it or not, almost *no leading*. Recoil was heavy, functioning quite positive, and those bullets broke up like a 45-grain Swift at maximum!

I then tried the Ideal 109-grain pointed gascheck .32-20 bullet with 14, 15, and 16 grains of No. 2400. All loads worked fine, and even the 16-grain load didn't show any real pressure. The 16-grain load was about the most potent thing I've ever fired out of a carbine, and small rocks at the local range sure took a beating! I also tried the 110-grain .30-30 hollow-point bullet with these loads and with cases full of No. 4198 (which didn't burn at all), but these heavier slugs wouldn't give the results I wanted, though maybe pointed 110-grain stuff would be OK.

Then, I got the WRA cases and some No. 4227. I also obtained 100 80-grain .32-20 high-power bullets and sized them to .3075 in a custom die that I had made. These bullets were loaded in the WRA cases with 16, 17, and 18 grains of No. 4227 (cases level full, powder compressed with 18-grain load). The 18-grain load seemed the best, and accuracy was good even out at 200 yards. The carbine has a 20-inch twist according to figures I've got from Aberdeen Proving Grounds, and it should handle these light bullets OK if they're loaded hot enough. As usual, I couldn't get any pressure signs from any loads tried. I want to try the 80- and 100-grain .32-20 bullets with heavy loads of No. 2400 next, as the 4227 loads don't seem to be right with any but the heavier bullets (I got even better results with the 109 gascheck and No. 4227 than with No. 2400).

A possible explanation for the low pressure on all loads might be that the darn M1 brass is so strong that you can't get in enough powder with bullets up to 110 grains to make it dangerous, although it might just be the weapon I was using. Another carbine might blow up with these loads!

I think that the carbine is swell for small game and even our Illinois chucks and crows up to 150 yards with the proper handloads. It certainly is *not* a deer gun as a lot of my buddies seem to think. Also, it works well with bullets of 80 to 100 grain weight, so why fool around with 110-grain bullets below 2,000 feet per second when you can get closer to 2,300 with the lighter stuff? I'd like to chronograph the light 80-grain loads because I'd be willing to bet they're going around 2,400 with heaviest charges of No. 2400 or No. 4227.—DAVID ANDRE, Chicago, Illinois.

NEW PRODUCTS

Clenzoil is a cleaner and preservative which has been developed and is being marketed by Ellis Christian Lenz, the well-known author, of 1228 Woodland Ave., N. W., Canton, Ohio. To prove that Clenzoil will remove corrosive chlorate priming fouling, Mr. Lenz conducted an interesting test. An FA 70 primer was fired on a polished piece of metal. Half the surface was wiped clean with Clenzoil and the test sample exposed to atmospheric conditions for a week. The half of the surface protected with Clenzoil remained polished but the other half is a mass of rust. To our knowledge, this is the first cleaner to be marketed that will remove corrosive chlorate priming mixture without the aid of water or other soluble agent.

Zona razor saw made by Western Arizona Sales, 8841 N. Central Ave., Phoenix, Arizona, has a blade with fine teeth which will be useful to handloaders who reform and cut off cartridge cases for wildcat cartridges. Made for cutting thin, soft metal, the saw has a blade about 6 inches long and only .008 inch thick. It will do a much better job of cutting off cartridge cases than the ordinary hacksaw, which has entirely too coarse teeth to do a neat job. 'M.B.S.' of P. O. Box 6723, North Philadelphia, Penna., features this practical little item at $1.00 postpaid. We have also found it in some local machine shop supply houses.

Portable chronographs for small arms experimenters have been placed on the market recently by two firms. One, called the Bulletron, is manufactured by G. E. Gundersen and sold by L. R. Wallack, Jr., Langhorne, Penna., for $59.50 postpaid. The price does not include the batteries necessary to operate the device. These, however, can be purchased at any radio store.

The other new portable chronograph is made by Cramer Bullet Mould Co., 11625 Van Owen, North Hollywood, Calif. It is equipped with a tape of nitrate film through which bullets are fired for recording velocity. Price quotations have not been received on the device.

Decoys made of light and durable tenite plastic are available from Herter's, Inc., Waseca, Minnesota. Moulded and weighing only .16 ounces each, they are claimed to outlast solid cedar decoys. The decoys are slightly larger than life size, with a built-in

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let our expert gunsmiths

check your guns now . . .

for a perfect season next fall

express us your guns . . . we'll send you

a detailed estimate of the repair cost

Now's the time to have your guns cleaned, repaired—by our long-experienced, professional gunsmiths . . . gun craftsmen who are skilled in everything from installation of sights, Polychokes and Cutts Compensators, to beautiful hand-engraving and gold inlay work. So send your guns today to the Gun Shop—we'll send you an estimate of the cost by return mail—and you'll be in perfect shape for opening day.

The Gun Shop—Fifth Floor

THE STORE FOR MEN—MARSHALL FIELD & COMPANY

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We also carry a complete line of M & G bullets, List on Request	
Du Pont Powder 3031, 4064, 4198, 4227, 4320, 4350 Lb.	1.90
Pistol No. 6, 4759, Bulk Shotgun ½ Lb.	1.15
Hercules Powder 2400, Hi Vel 2, Lb. $2.00—Bullseye 11 Oz. $1.60—Unique 13 Oz.	1.80
Primers 9½, 8½, 6½, 2½, 1½, 120, 116, 115, 111, 108, per c 70¢—per M	6.75

We carry a complete line of Primed Cases. Hornady, Sisk, Western Tool & Copper Works and factory bullets. List mailed on Request. Stamps appreciated.

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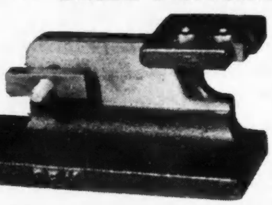
Lyman, Belding & Mull, Wilson, Smiley, Redding, IPCO products, Weatherby funnels, Du Pont and Hercules Powder, Sierra and M & G bullets. Discounts to established, rated Dealers.

Postage paid except on Powder, Primers, Primed Cases and full length Loading Presses.

PRECISION TOOL & GUN CO.
303 E. UPLAND RD. ITHACA, N. Y.
Central New York's Largest
Reloading Supply Service

Rex RECEIVER SIGHT DRILL FIXTURE



Use of this fixture reduces drill breakage and assures proper placement and squareness of receiver sights. Can be used for all popular models of sights. Fixtures are made for Springfield, Mauser and Enfield. No more worries with squares, levels, surface plates, etc. Simply put receiver in fixture, tighten screw, set on drill press and drill. Fixtures are precision made in our shop and have hardened bushings. Useful in small shops, as receivers can be drilled with a minimum of equipment. Large shops will save their cost in time saved on the first few jobs. Priced at $5.75 each POSTPAID, or complete set of 3 for $15.75 POSTPAID.

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The New B.S.A. Rifle

.22 caliber Martini Action
A FINE RIFLE FOR ABOUT $135.00
Write for full details.
AL FREELAND
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Makes Old Guns Look New

Van's INSTANT GUN BLUE

$1.00 Kit... Removes grease, penetrates rust, leaves a satin blue-black finish. Takes minutes, not hours. Kit includes Gun Blue, cotton, Crocus cloth and steel wool. Ask your dealer... or write for folder.

C. S. VAN GORDEN & SON EAU CLAIRE, WIS.

Van's
INSTANT GUN BLUE

keel which will keep them upright in roug water. Available in 29 duck and goos models, they are priced at $18.75 a dozen

GUNSMITH TRADE DOPE

Leonard M. Brownell, 237 W. 6th St., Sher dan, Wyoming, showed us some fine sample of his stock work while we were in Denve for the NRA convention last fall. Since the we have seen another of myrtle wood and th workmanship is superb inside and out. How he or anyone else can do such work on myrtl wood is a mystery to us. The wood is e tremely hard to work, yet Brownell's work tops, including checkering. Prices for the wor varies, of course, according to the type of stoc and amount of checkering.

Fulcrum Oil Company, 1149 Liberty St Franklin, Penna., produces one of the fines gun oils obtainable for lubricating purpose yet it has some preservative qualities as wel Under normal conditions Fulcrum gun o will not congeal in the mechanism of a fire arm and provides perfect lubrication.

I. J. Sullivan, P. O. Box 1, Culdesac, Idaho supplies the bullet point protector formerl produced by Mr. Floyd Held of the sam city. Also, a new one for the Mauser rifl has been added to the line which not onl holds the cartridge to the back end of th magazine, preventing the bullet point fron being upset and driven into the case, bu makes for straight-line loading, thus elim inating some feeding problems with blunt nosed bullets. The bullet point protector mus be soldered to the inside of the magazine bo but anyone capable of handling a solderin iron should be able to do a satisfactory job

Wood-Lab Products, Sawmill Road, Mt Bethel, Route 2, Plainfield, N. J., has avail able handgun cases of many different types ranging from a standard two-gun model u to one measuring 9x12x16½ inches whic holds one-half dozen handguns plus a spot ting scope mount. A unique feature are tray which hold two guns each and pivot ope from one corner. Adapters are furnished s that the customer can place them in the tray to accommodate the model of handgun h uses. Constructed of plywood with water proof joints and Vinyl Leatherette, thes handgun cases range from $21 to $35.

Schimel Arms, 12270 Montague Bldg., 2 Pacoima, California, announces that factor and sales offices have been consolidated t facilitate production. The interesting Schime pistol, which has been tried and reported on is powered by readily available CO_2 sod cylinders obtainable at most any drug stor and is practical for short range basement use

Miller Gun Shop, 212 Center St., Olean N. Y., makes a number of useful gun acces sories. One is a practical all-angle powde measure clamp which clamps in three differen positions on the work bench, tool chest, o car bumper. Another Miller product is th Prescott side safety for Mauser, Wincheste 54, and Springfield rifles which is installe by altering the bolt sleeve. It is a practica and handy safety, originally designed b Marcy Prescott. The Miller Gun Shop als installs bolt handles on all popular bolt action rifles. The bolt handles range in price from $8 to $10, and the Prescott safety in stalled is $12.50.

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rate: 25 cents per word including name and address—minimum charge $3.00. Advertisements *must be accompanied by remittance*, addressed to "The Arms Chest," American Rifleman, made payable to "National Rifle Association"—1600 Rhode Island Ave., Washington 6, D. C. *Insertion will not be made until payment is received.*

2. Closing Date: All advertisements must be received with advance payment by not later than the 1st of the month preceding date of issue. (Example: Aug. 1st for the Sept. issue. Ads received after Aug. 1st and not later than Sept. 1st will be inserted in the Oct. issue.)

3. All Ads Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

4. Transactions Based on Good Faith: Deliberate misrepresentation, or violation of the codes of good sportsmanship and good business ethics, will constitute grounds for refusal of advertising, and may result in disbarment from N.R.A. membership.

5. Blind Ads Not Acceptable: Blind ads, with box numbers *only*, will not be accepted. Give your COMPLETE name and address, to insure prompt delivery of all mail or telegraph replies.

6. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters are counted as one word (example: W. H. Smith (W. H. counts as one word); H. B., meaning heavy barrel, etc.; W. H. and H. B. are one word) Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

7. No Responsibility for Illegible Copy: The publishers are not responsible for errors in printing advertisements, due to illegible copy; type or print clearly all ads.

8. All Articles to Be Properly Described: To avoid misunderstandings the condition of every advertised article should be described in accordance with the following definitions, NEW—not previously sold at retail, in same condition as current factory production; NEW—DISCONTINUED—same as NEW, but discontinued model. The following definitions will apply to all SECOND-HAND articles: PERFECT—in new condition, in every respect; EXCELLENT—new condition, used but little, no noticeable marring of wood or metal, bluing perfect (except at muzzle or sharp edges); VERY GOOD—in perfect working condition, no appreciable wear on working surfaces, no corrosion or pitting, only minor surface dents or scratches; GOOD—in safe working condition, minor wear on working surfaces, no broken parts, no corrosion or pitting that will interfere with proper functioning; FAIR—in safe working condition but well worn, perhaps requiring replacement of minor parts or adjustments which should be indicated in advertisement, no rust but may have corrosion pits which do not render article unsafe or inoperable; POOR—badly worn, perhaps requiring major adjustments or repairs to place in operating condition.

9. WARNING TO PURCHASERS: The publishers *will accept no responsibility* for *any* unsatisfactory transaction involving articles which have not been described in accordance with the foregoing NRA standards. Purchasers or traders should therefore insist that sellers give clear descriptions of all articles, in accordance with these standards—*before* any transactions are consummated. Purchasers should also request shipment by express C.O.D., *with examination privileges;* the purchaser may (and should) then examine the shipment in his local express office—if unsatisfactory the article will then be returned by the express company to the shipper, at the latter's expense.

10(a). The National Firearms Act forbids the sale of the following: (*a.*) Full automatic machine guns. (*b.*) Rifles and shotguns with barrels less than 18 inches in length or 16 inches in the case of a weapon of .22 or smaller caliber. (*c.*) Handguns such as the Mauser or Luger automatic pistols, when such weapons are equipped with detachable butt stocks, except that all of the above may be sold by a Federal licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code. NOTE:—"Barrel length", as it applies to the above, is determined by the insertion of a cleaning rod from the muzzle until it comes to rest against the face of the closed breech.

(b). In addition, the NRA has adopted a policy of not accepting advertisements covering small *pocket* pistols or revolvers of less than .38 caliber, or with barrel lengths of 2 inches or less, which have no practical value as target, police or military weapons.

11. Fair Trade Laws: Advertising will not be accepted for articles to be sold in violation of Fair Trade laws, after the manufacturer has advised the NRA that such violation exists.

FOR SALE

WINCHESTER CARBINES, CAL. 30-30, SURplus stock, like new, $55.00. Winchester Model 70 Super Grade Rifle, cal. 220 Swift, Ramp Front and Lyman 48 WJS Rear, $157.50. Berretta, 6.5 Military Service Carbines, as issued, excellent condition, price $19.50. New 1950 catalog of Firearms, Gov't. Surplus & Sporting Goods. Send coin 25¢. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

OLD CATALOGS AND ARMS BOOKS FOR Sale. Send for new list and Arms Information card. Hugh Smiley, Henniker 10, N.H.

.22 ACE S.M. WITH .45 CONVERSION (match barrel) 2 magazines each, shoulder holster, excellent, first $85.00. E. L. Zanutto, Lt. USMC, Morehead City, N.C.

SNOOPERSCOPE TUBE. PERMITS NIGHTtime vision. Tube and complete instructions $14.95. Snooperscope book $1.50. Infrared filters 15¢. Precise, 942 Kings Highway, Brooklyn 23, N.Y.

PREWAR HENSOLDT 8X24 BINOCULARS and case $55.00. P38 pistol, excellent, with holster $50.00. First M.O. Ed. Naughten, 1023—10th Ave., Helena, Montana.

GARAND. CARBINE. ENFIELD. 03 PARTS. Also some foreign parts in single or quantity lots. No lists at present. Greeley, 448 Pompton Ave., Cedar Grove, N.J.

SILVER INLAYS FOR GUN STOCKS. Shields, animals etc. Illustrated folder. Kreher Kraft, Clearfield, Pa.

SPECIAL BARGAIN OFFER—WAR SURplus—One quart can (32 oz.) U.S. Official Gun Oil plus four 6 oz. cans (24 oz.) U.S. Official Gun Bore Cleaner plus about 500 unnapped twill cleaning patches. All three for $1.95 postpaid. The oil and bore cleaner come in originally sealed U.S. Government cans. This quantity sufficient for normal 10-year use and is worth 5 times this price in similar commercial products. Life Member, Philip Jay Medicus, Dept. A-7, 18 Fletcher Street, New York 7, New York.

MOLDS: SELLING OUT 110 NEW HENSLEY & Gibbs double cavity with handles $7.00 each or $660.00 for the lot. Sizes from .22 to .50 caliber. Write for list. Philbrick's Gun Shop, 705 N. Elm Ave., Portsmouth, Va.

PLAIN, GOOD COLOR FRENCH SHORT blanks $5.00. R. Vail, Warwick, N.Y.

AMMUNITION BELOW COST—.250-3000, .257, .270, .30-06, .300S., .30-30, .32WS., 8m/m Custom loads, $8.00 per 100. Paul Ratliff, Dayton, Oregon.

CHANCE OF A LIFETIME. SELLING OUT personal collection. Custom, ex., Kerr's 70-06, Alaskan, dot, Buehler, 1" at 100. Cost $485.00. Sell $300.00. Custom, ex., .270 Mauser, 4 x Maxwell-Smith, Buehler, Cost $350.00. Sell $225.00. Custom, ex., flyweight .257R Mauser, Leupold, dot, Buehler, by Hutchings. Cost $375.00. Sell $200.00. BRNO 7mm Mauser, Echo Mt. Ex. $110.00. Win. 21, 12 Ga. Skeet, SSTAE Ex. $150.00. .300 H & H CCC Mod. 70, Special #2 barrel, supergrade stock, Dural Zeiss Zielvier, 4x dot. G & H. Windage Mt. 1" at 100 yds. Ex. Cost $320.00. Sell $225.00. Rem. Mod. 81 .300 Auto. Ex. $85.00. Rem. 721 .300 H & H, as new $60.00. 8x57 JR double rifle, beautiful gun, barrels fair $100.00. 357 S & W Mag. King Nite Sights 5½" Perf. $100.00. Mod. 70 Bull 300 H & H, Lyman 15x Super Target Spot, as new $225.00. Write for complete description. Terms are R.R. Express, C.O.D. examination privilege. T. R. Fowler, 150 Barrington Place, Los Angeles 49, Calif.

LEARN TO CALL CROWS LIKE THE NAtional Crow Shooting champion. Columbia recording, basic calls, usable anywhere, $5.00. Bert Popowski, Aberdeen, South Dakota.

SAVE AMMUNITION! YOU'LL GET MORE hits, use fewer shells with a Poly-Choke on your favorite "single." Write for free copy of "Wing Shooters Handbook" today. The Poly-Choke Co., 2271 Tunxis St., Hartford, Conn.

DOUBLE RIFLES, OU'S, FANCY MAUSERS. Long, "return" envelope. Bedford, New London, Ohio.

FOR SALE: WALNUT, CHERRY AND curly maple gunstock blanks sawed to patterns. L. G. Stockberger, Garrettsville, Ohio.

ANTIQUE FIREARMS, ACCESSORIES AND parts. All illustrated lists for a year, $1.00. Weisz, 100 South Uhle St., Arlington, Virginia.

THROWING KNIVES, PERFECTLY BALanced, with sheath, instructions—$1.50 Postpaid. Stark Manufacturing, 1718-P Walnut, Allentown, Pennsylvania.

BIG CATALOG, ANTIQUE GUNS, $1.00. 475 photographs. Satisfaction guaranteed. G. B. Hebard, Knoxville, Illinois.

ANTIQUE AND MODERN GUNS. BARGAIN list 10¢. Martin Rywell, 104, Harriman, Tennessee.

RUBBER RECOIL BOOTS TO FIT ANY rifle or shotgun. Value $2.50 each, Sale 3 for $1.00. Carryall, new, Gov't. surplus, large canvas roll Carryall with two web straps and handle for Sportsmen, Ball Players, Campers and Travelers, Value $12.50, Special $1.95. Jacobs Automatic Safety for Remington Automatic and Winchester Pump Shotguns, Model 12, New, Value $7.95, Special $4.50. New 1950 catalog of Firearms, Gov't. Surplus & Sporting Goods. Send coin 25¢. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

HUNDREDS OF ANTIQUE ARMS, EDGED weapons, cartridges, parts, accessories, books for sale at all times. Get on my mailing list for 25¢. H. A. Brand, 174 Woolper Ave., Cincinnati 20, Ohio.

Are YOU Ready for the Hunting Season?

Do your guns need repairing — or rebluing?

Planning on new sights, a top-quality scope, better scope mounts, a Polychoke, Cutts Comp or Power-Pac?

Right now your favorite gunsmith is in a *much* better position to give you prompt service on your special needs, than he will be later on in the hunting season.

So get out your gun, *now*, and let your gunsmith get to work on it while he still has time to do a leisurely job, exactly the way you want it!

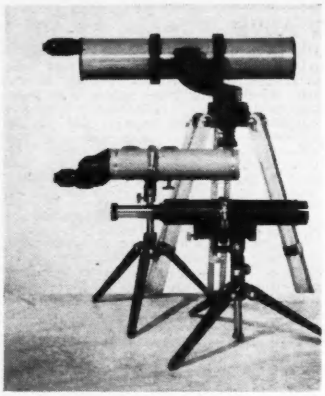
☆ ☆ ☆

P.S. If you have any extra deer rifles, duck guns or other excess hunting supplies, an ad in the September 'Arms Chest' will move them for you quickly—and profitably.

☆ ☆ ☆

Your ad "copy" for the September issue must reach us, with remittance, not later than August 1st.

TOPS ON THE RANGE . . . in Every Way!



★ **TOPS IN VALUE**—The SCOUT, the RANGER, and now the TEAM CAPTAIN offer more for your money than any other spotting scope in their respective classes.

★ **TOPS IN QUALITY**—All three are precision made of finest materials. Lenses are ground to within millionths of an inch tolerance; each instrument is as optically perfect as possible.

★ **TOPS IN SELECTION**—The SATURN Line of spotting scopes offers the widest selection of quality instruments, the greatest value in every price range.

√ **For the amateur . . . for the professional . . . for the team captain, there's a SATURN 'SCOPE that fills the bill!**

For more information write:

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CONVERSIONS — REBARRELING
REPAIRS — REBLUING
STOCK ALTERATIONS—REFINISHING
ACTION WORK—Actions hand finished for perfect operation.
RESTOCKING—Fancy woods, excellent checkering
POLY CHOKES—3 day service
Regular Poly.....$14.75
Ventilated Poly ... 18.75
Send bbl. only—specify length desired

QUALITY WORK ONLY
PROMPT SERVICE

Send for Price List G

FREER & KENT, *Gunsmiths*

THURMAN RANDLE & CO.
208 No. Akard St., Dallas 1, Texas

SWEDISH SPRING STEEL

Soft Annealed—Cold Rolled

Bend and shape your V and leaf springs cold. Harden at 1475—1500 F quench in oil. Temper at 700 to 900 F to desired hardness. Lengths from 1 to 3 ft.

Sizes:	Price per ft.
1/32 x ½"	$.15
1/16 x ½"	.15
3/64 x ½"	.20
3/32 x ¾"	.25
1/8 x ¾"	.35
3/16 x ¾"	.45

Assortment: 1 ft. of each size, including Postage $1.75

FRANK MITTERMEIER Gunsmith Supplies
3577 E. Tremont Ave. Bronx 61, N. Y.

SPRINGFIELD STOCKS

SEMI-PISTOL GRIP ▪ NEW ▪ 1903-A1

Completely inletted and finished, no finger grooves. $1.90 each, two for $3.00. Postpaid if payment accompanies order.

DEMRICK SALES COMPANY
1424 Grant Avenue, San Francisco, California

IMPORTED POCKET WARMER

$2.50 Postpaid Send Check or Money Order

Keep comfortable while hunting, fishing, golfing, or participating in any outdoor activity during cold and wintry days. Temperature of 120° maintained for from 12 to 24 hours by radiation. Lighter fluid used for fuel. Can be refilled every day. Metal, Chrome finished and velvet pouch container for heater.

MAKES AN IDEAL GIFT FOR SPORTSMEN

DEALERS: write us for samples and trade discount. You should have a few on hand at all times and be sure to plan on having a good source of supply for next season.

Our Sales Aids Are the Best.

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JOHN A. PETERSON CO.
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STITH MASTER MOUNTS SPRINGFIELD & Mauser, K6 with band & protectors, $65.00. G. E. Brayton, Fremont, Nebr.

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OUT-OF-PAWN "SHOTGUNS," "RIFLES," "Pistols". Big Savings, Write Needs, enclose stamp. Virginia Pawnbrokers, Danville, Virginia.

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Importers - Gunmakers - Purveyors

132 Nassau Street, New York 7, N. Y. Having resumed relations with our European gunmakers we announce the availability of many of these heretofore unobtainable items: Double rifles-Shotguns-Superposed guns-Luger conversions-clips and magazines, etc.

Inquiries respectfully solicited.

1865 - Bannerman - 1950

Revolver nipple wrench	$ .80	each
C.W. Musket hammer	.50	"
Krag rear sight, Mod. '92, new	1.00	"
Sharp's main spring	1.00	"
Sharp's rifle butt, patchbox cut	.95	"
Sharp's .50 cal. firing pin	1.00	"
Sharp's .50 cal. hammer	1.00	"
Sharp's lever spring	1.00	"
Sharp's butt plate	1.00	"
Shot gun nipples	.25	"
Flints, assorted per dozen	1.00	"
1903 Bayonet & Scabbard	1.50	"
1903 front sight cover	.25	"
1903 Model A-3 stock	3.50	"
Machete, 18" & Scabbard, new	2.25	"
Antique oil cup	.25	"
Springfield 45-70 firing pin	.40	"
Springfield 45-70 headless extractor	.25	"
Springfield 45-70 globe sight cover	.35	"
Springfield 45-70 Gun sling, used	.30	"
45-70-500 Lee-Remington Magazine	.55	"
45-70 Web cartridge belt	.50	"
Mauser headless shell extractor	.50	"
Confederate Enfield bayonet	.45	"
Confederate web sling	1.00	"
Confederate nipple protectors, dozen	1.00	"
Russian Rifle Rod 28½"	1.00	"
5¼" flint lock plate with pan only	.60	"
Flint Hammer, British, medium	.95	"
Flint Frizzen, British, medium	.35	"
Joslyn Carbine Lock	3.00	"
Burnside Carbine Main Spring	1.00	"
1863 Colt Rifle Main Spring	1.00	"
1866 Springfield extractor	.50	"
8MM Mauser Cartridge box, 1888 Model	.35	"
Springfield Mod. '42 main spring	1.25	"
Springfield Mod. '42 bayonet	1.00	"
Springfield Mod. 1821 main spring	1.25	"
Springfield Mod. 1821 bayonet	1.50	"
Spencer Main Spring	1.00	"
Krag striker	1.00	"
Krag rifle 30/40	37.50	"

Prices do not include postage.

1950 circular 10¢. 1949 catalog, 308 pages, over 2000 illustrations of cannon, guns, flint pistols, Claymores, and foreign swords.

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501 BROADWAY NEW YORK 12, NEW YORK

GENUINE NAVY INTERMEDIATE FLIGHT jackets, new, dark brown goatskin leather, biswing back, two patch pockets, one inside snap pocket, celanese lined, Mouton collar, elastic knit waistband and cuffs, zippered front. Sizes 34 to 46 $29.95 each. Flying Equipment Co., 1641-5 W. Wolfram St., Dept. AR, Chicago 13, Ill.

VARMINT SHOOTERS! YOUR CASES loaded in Hornet, K-H, Bee, Lovell, 2-R, Zipper, Imp. Zipper, Swift, .22-250, .219 Donaldson, .257, .270, .300 Sav., .30-06, 8mm. Reasonable. Selling out some 8mm deer loads at $.12 each. Scopes, mounts. R. S. Bell, RD #4, Bloomsburg, Pa.

POCKET PAL; SPORTS-KNIFE. FREE blades. Extra thin. Razor sharp. Trims pork rind, leaders, flies, baits. $1.00. Nelson Co., 227 Kellogg, St. Paul 2, Minn.

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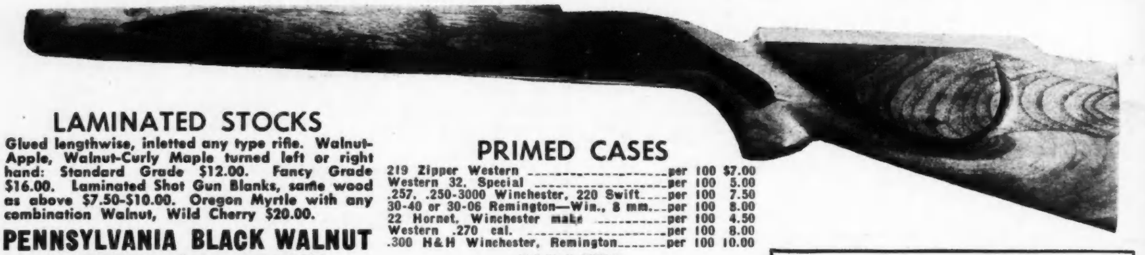

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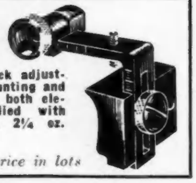

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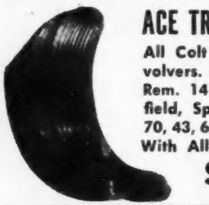

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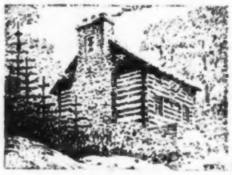

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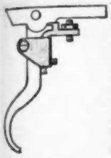

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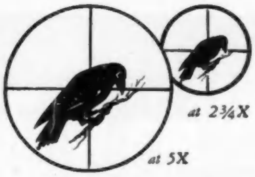

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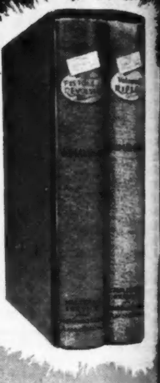

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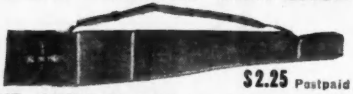

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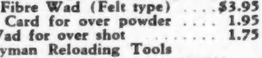

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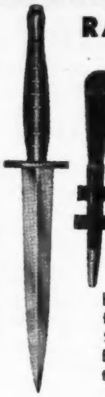

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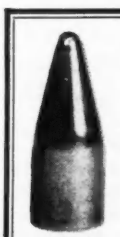

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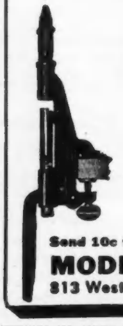

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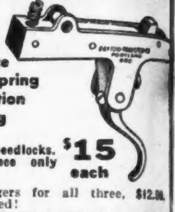

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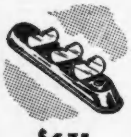

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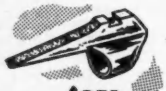

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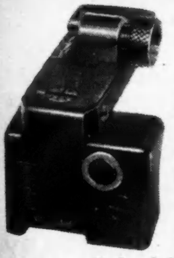

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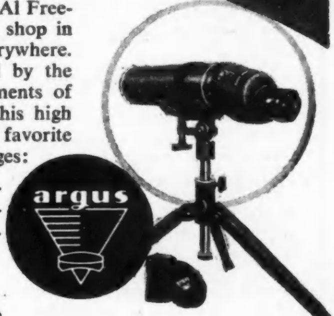

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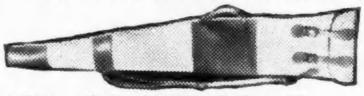

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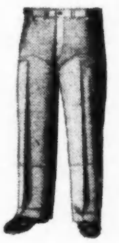

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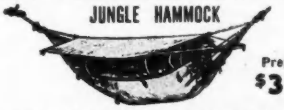

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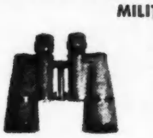

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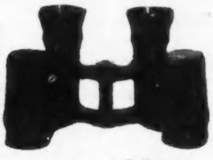

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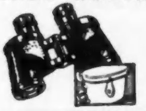

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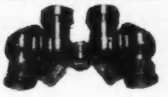

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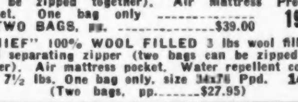

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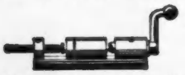

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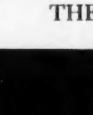

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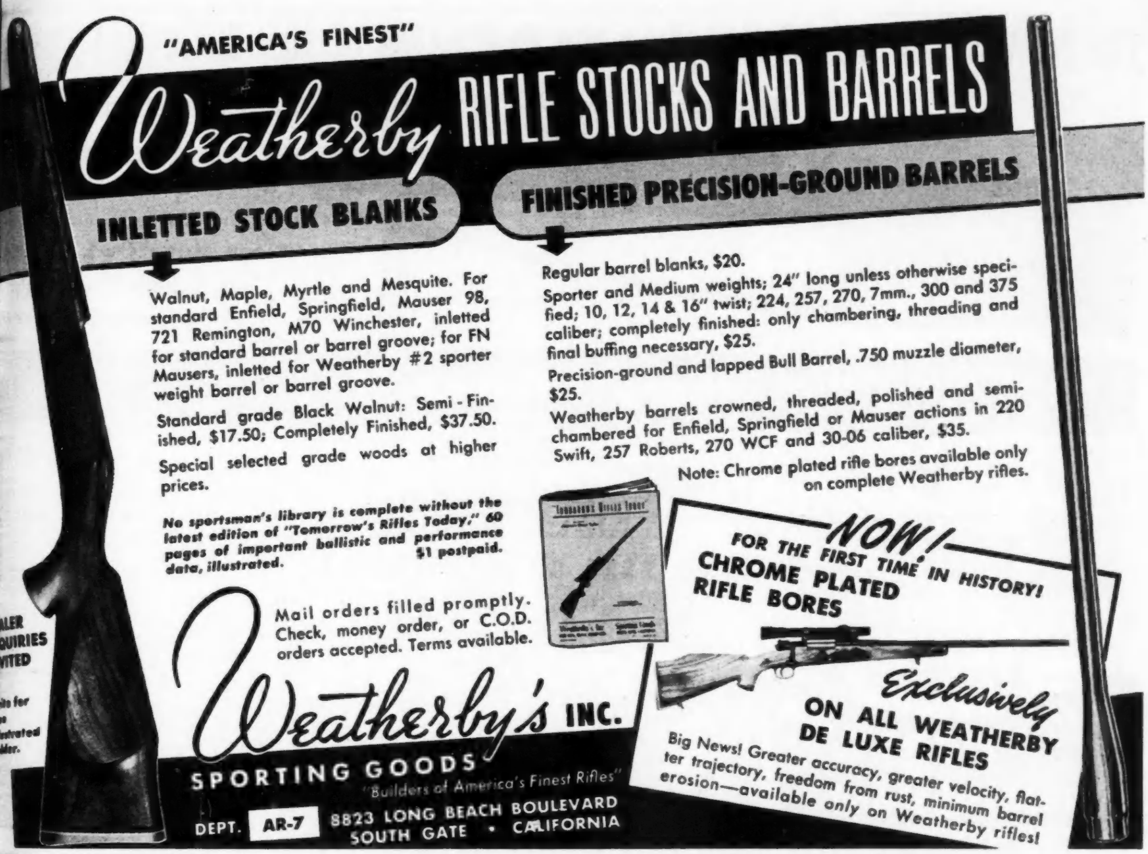

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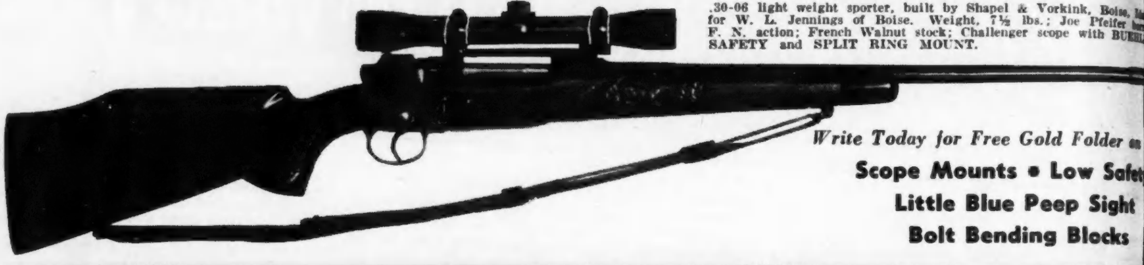

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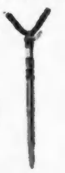

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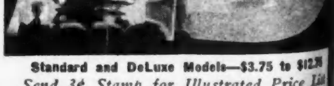

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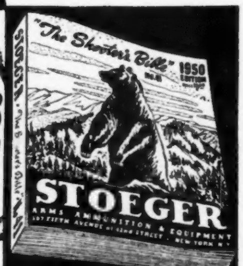
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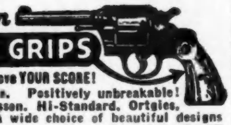

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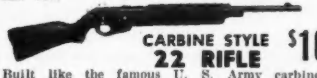

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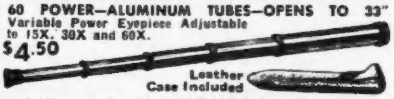

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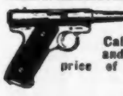

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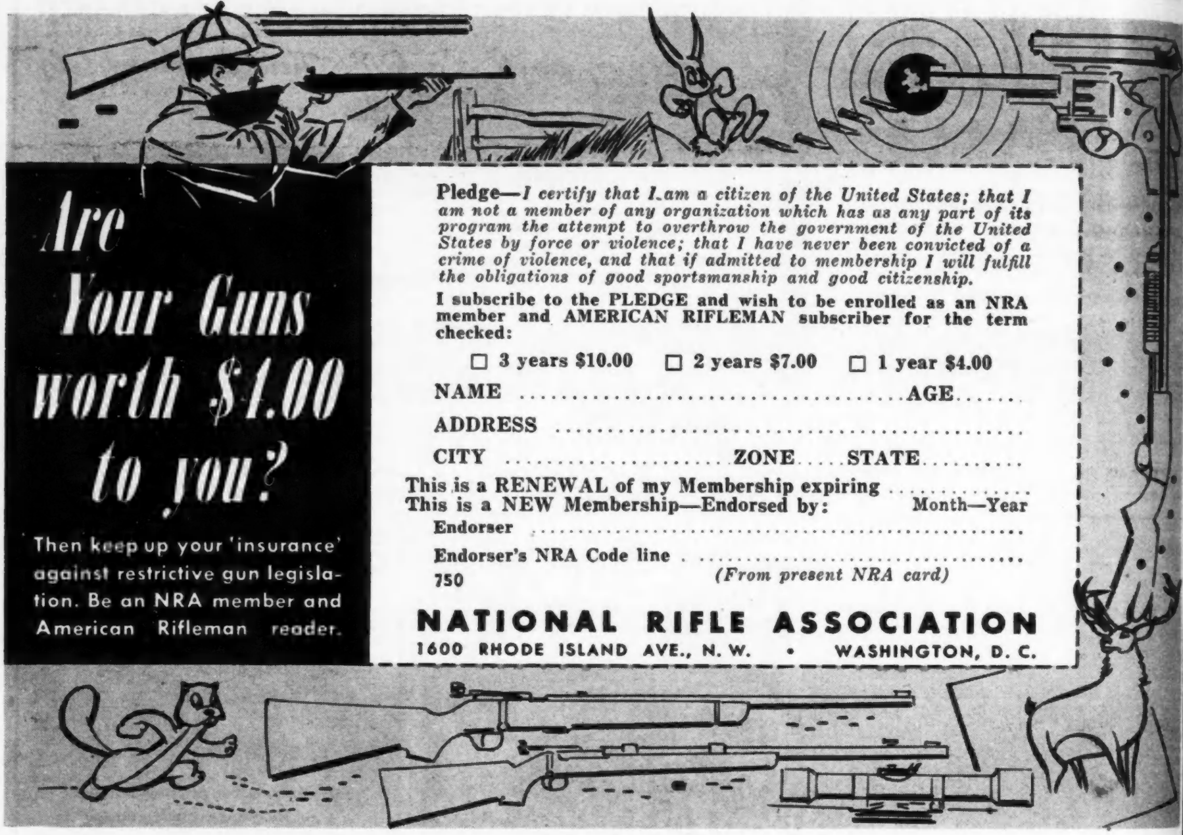

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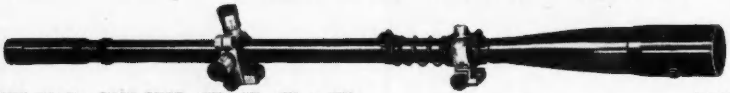

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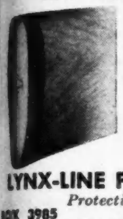

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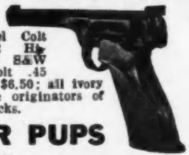

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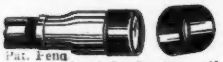

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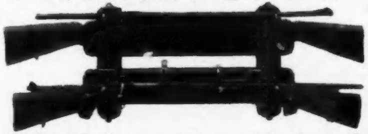

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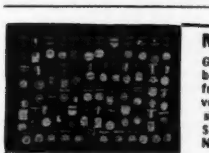

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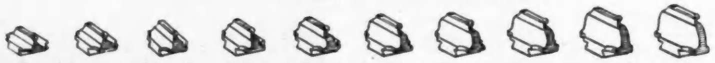

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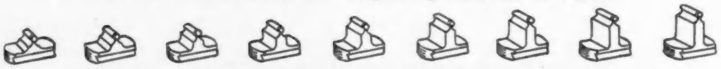

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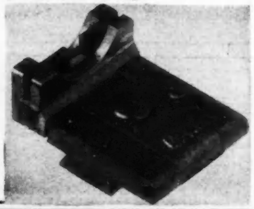

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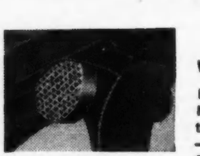

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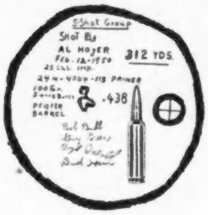

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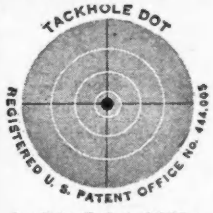

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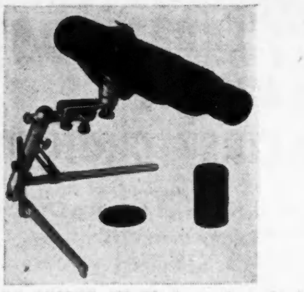

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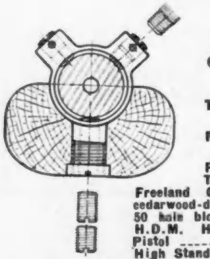

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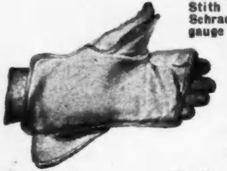

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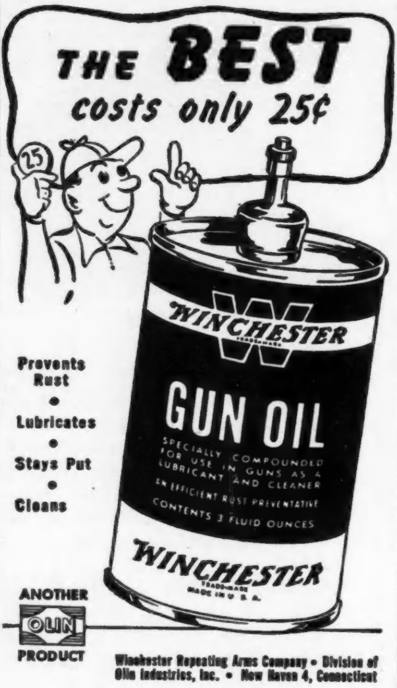

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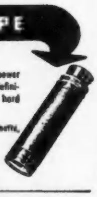

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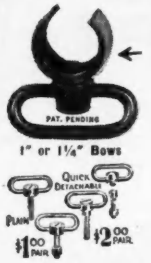

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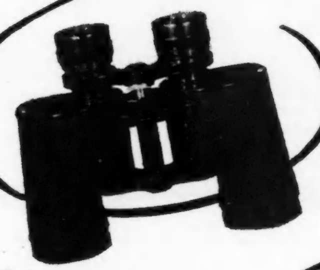

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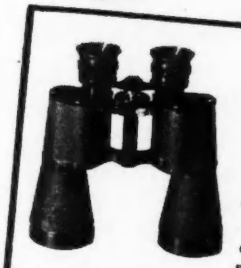

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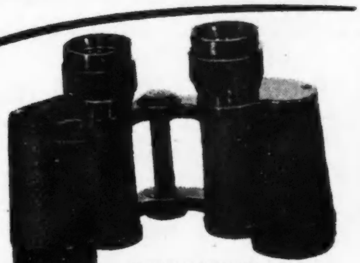

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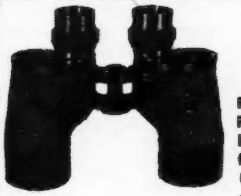

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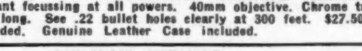

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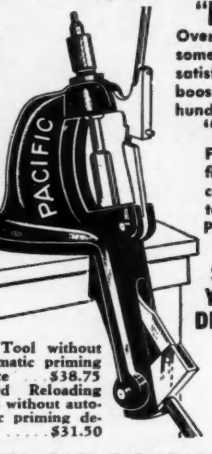

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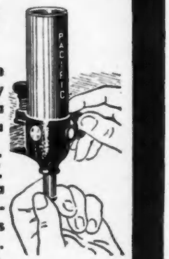

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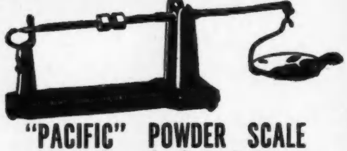

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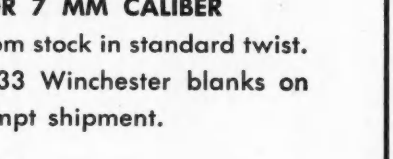

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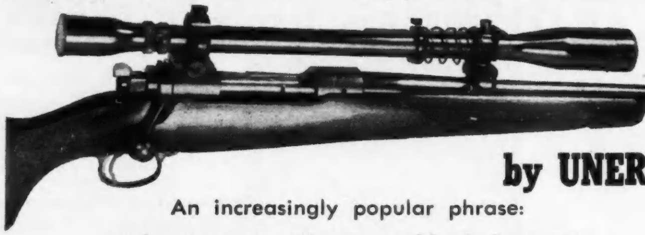

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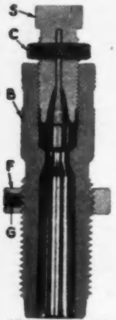

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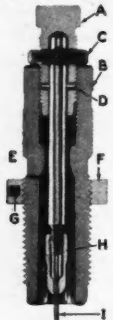

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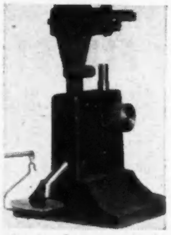

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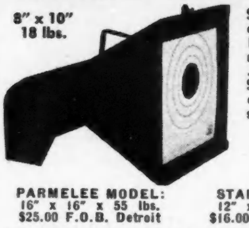

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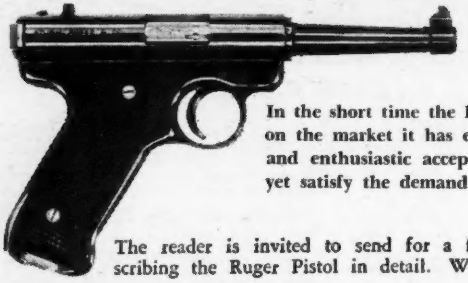

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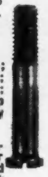

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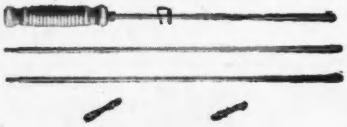

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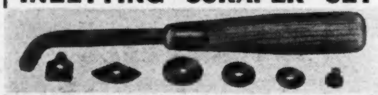

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